AN

ACCOUNT

OF THE

TRIGONOMETRICAL SURVEY,

CARRIED ON BY ORDER OF THE

MASTER-GENERAL OF HIS MAJESTY'S ORDNANCE,

IN THE YEARS

1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, AND 1809.

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AND TO HIS ROYAL HIGHNESS THE PRINCE OF WALES,

CHARING-CROSS.

1811.

PREFACE.

In the year 1800 a paper was presented to the public, through the medium of the Philosophical Transactions, giving an account of the Trigonometrical operations performed in 1797, 1798, and 1799. Before we enter on the particulars composing the body of the following work, it will be proper to take a short view of the state of this undertaking at different periods since the commencement of it, in the year 1791, to the state of it in the year 1799.

The first communication on the subject of this Survey was made to the Royal Society, and printed in their volume for 1795. In that account is given a detail of the whole of the operations previously performed for effectuating the initial parts of the Survey. These principally consisted of the measurements of the base lines on Hounslow Heath and Romney Marsh, joining the triangles proceeding from the former, to those of the late Major General Roy, at Fairlight Down; and intermediately at other stations, and measuring a base of verification on Salisbury Plain.

The second paper is found in the Philosophical Transactions for the year 1797. This contains the triangles carried on in the two previous years, from the base line on Salisbury Plain,

towards the west, and along the southern coast as far as the Land's End. It also gives an account, with all the particulars, of a Survey, carried on in Kent, with a new circular instrument of less dimension than those of the large theodolite, but of similar construction.

The third paper made its appearance in 1800, detailing the operations of 1797, 1798, and 1799. From this it will appear, that since the publication of the former account, the great triangles had been carried on northward as far as Bristol and Oxford; and also that a minute Survey of Essex had been made. Particulars of the measurement of a base line on Sedgemoor were also given, that base line being the fourth measured since the commencement of the Survey.

The fourth, and last communication to the Royal Society, was made in the year 1803. It consisted chiefly of an account of the measurement of an arc of the meridian, extending from Dunnose, in the Isle of Wight, to Clifton, in Yorkshire. The triangles necessary for ascertaining the distance between those stations were only given, that paper having been composed, principally, with a view to announce the conclusions derived from that operation.

From this sketch it will appear, that the Trigonometrical operations, from their commencement in 1791 to the present time, are not accounted for beyond those particulars which constitute a Survey of the southern coast, and as much of the interior as lie between it and the parallels of Oxford and Bristol. The present Work contains a large mass of Topographical matter, which, combined with that given in the accounts before published, comprizes the Trigonometrical Survey of almost all England, and the whole of Wales, with a part of Scotland.

The first Section contains the angles observed with the large theodolite, as well as the angles of elevation or depression at the several stations, and also the situations of those stations.

The second Section contains a short account of the measurement of a new base line on Rhuddlan Marsh, near St. Asaph, in North Wales, with the reduction of that base, and the calculation of the sides of the principal triangles. Of these triangles, those first given are made to depend on the side joining the stations Bow Brickhill and Lilleyhoe, and Lilleyhoe and Ledlington, (see the Philosophical Transactions for the year 1800, page 604), extending from thence to the north of Cambridgeshire, the last stations being Littleport in that county, and Brandon Warren, near Brandon, in Suffolk.

The triangles running up from Arbury Hill to Clifton Beacon, in Yorkshire, as given in the Philosophical Transactions for 1803, result from observations made immediately after the operations in Cambridgeshire ceased. Other triangles, also resulting from observations made in the same season, and uniting with the former on the eastern side, are given in this section. In this series, two stations will be found named Cropwell Bishop and Bottesford. These were chosen to connect the triangles with the extremeties of a base-line then intended to be measured, but since relinquished, Misterton Carr, in the north of Lincolnshire, proving to be a more proper spot for that operation: however, the triangles depending on these stations are given, many churches and objects of note having been observed from them, and their situations thereby ascertained. The junction between the triangles of this series, and those in Cambridgeshire, is effected by intermediate spires, among which Souldrope is the principal, and the distances—Souldrope Spire from Arbury Hill 146434 feet, from

Lilleyhoe 115863 feet, from Orwell 125908 feet, and from Ely Minster 196695 feet, may be considered as primary.

The triangles next in order, are those which proceed from a base line recently measured on Rhuddlan Marsh, branching off in all directions. A series extends from this base to Anglesea, thence, by Snowdon, down the western coast of Wales, by Cardigan Bay, joining, near Aberystwith, a series of triangles extending over South Wales, and proceeding from the triangles in Glocestershire, along the borders of the Severn and Bristol Channel, to St. David's Head, and thence up to this just mentioned point of junction. Another series, uniting with the former, proceeds southward from Rhuddlan Marsh, and joins the southern triangles in Glamorganshire, while, from the western side of this series, triangles unite with those in the central part of England. From this new base, triangles branch out towards the east, and unite with those proceeding westward from Misterton Carr, mutually verifying the sides of each series. Triangles are also carried on from this base through Lancashire, Cumberland, and Westmoreland, into Scotland, and uniting with another series, extending from Clifton Beacon, through Yorkshire and Northumberland, and the east part of Scotland, as far as the northern side of the Firth of Forth.

On examination, the triangles in this section will appear to have had only two angles observed in some cases. Had it been practicable, the instrument would, as heretofore, have been always taken to the third station; but the peculiar character of the country, where this omission has had place, prevented the performance of that measure. This, however, cannot, but in a very trifling degree, have affected the accuracy of the conclusions, as the proofs on the sides of several triangles so circum-

stanced, plainly shew. With an instrument, so excellent as that used in this Survey, except for the purpose of intersecting surrounding objects, it is, perhaps, not necessary tenaciously to adhere to the practice of observing the third angle of every triangle. The computed length of the base line on Rhuddlan Marsh, derived from the base on Hounslow Heath, differs only one foot from the length obtained by actual measurement; and the base on Misterton Carr, used in the series of triangles connecting it with Rhuddlan Marsh, gives a result equally consistent.

Section Third, contains the secondary triangles formed by the intersection of church steeples, and other remarkable objects, from the principal stations, amounting in number to six hundred and fourteen. Several of these are supplementary, or *proof* triangles, inserted for the purpose of evincing that, under those circumstances, the intersected objects are properly identified. The number of triangles in this Section might have been greatly increased, if scrupulous attention had not been paid to select intersections not likely to be erroneous.

The Fourth Section contains the triangles, principal and secondary, for the survey of the western counties. The first class of secondary triangles, under the head of this Section, proceeds from the side joining the station on the Quantock range of hills and Moorlynch, and is extended over a large part of Somersetshire, and the eastern part of Devon. The angles of these triangles were observed with the same care as those of the great triangles, staffs being generally erected over the stations. The large and small circular instruments were employed, the former when the station was on the ground, and the latter when observations were made from a tower.

The triangles next in succession, are those constituted for the Survey of the north of Devon. It must be remembered that, when the Survey was formerly carried on in the southern part of this county, the triangles could not be ran up to the northern parts from the intervention of Dartmoor. The triangles now in view, partly depend on the old sides in the east of Cornwall and partly on those in the north-west of Somersetshire.

The next class contains, the triangles for the Survey of Dartmoor and the south of Devon. These originate from the sides of the great triangles heretofore published in the Philosophical Transactions.

These articles are followed by the interior triangles constituted by the intersections of objects from the several stations previously mentioned, comprehending almost every steeple in the west of Somersetshire, all Devon, and the greatest part of Cornwall. To these are subjoined, first, the triangles for the Survey of Dorsetshire; secondly, for the Survey of Hampshire, part of Somersetshire, and part of Wiltshire; thirdly, for the Survey of the county of Sussex; fourthly, for the Survey of part of Surrey; fifthly, for the Survey of Middlesex and Hertfordshire; sixthly, for the Survey of part of Surrey and part of Berkshire; seventhly, for the Survey of part of South-Wales; eighthly, for the Survey of Cambridgeshire; ninthly, for the Survey of part of Bedfordshire and part of Buckinghamshire. This Section concludes with the particulars relating to the altitudes of the stations, and a general list of those altitudes alphabetically arranged. And here it is to be observed, that the altitudes of the stations enumerated in the former publication on this subject are again repeated, that all the deductions may be brought under one point of view.

It may not be improper, on this occasion, to observe that, the contents of this Section have been made subservient to a regular survey, performed by the Royal Military Surveyors, so that no doubt can be reasonably entertained of the Section being free from errors in bearings, or the identity of the consecutive intersections being certain.

Section the fifth, contains the reduction of the observations made on certain stars with the zenith sector, at Delamere Forest and Burleigh Moor, to the beginning of the year 1806. These observations thus reduced, combined with those formerly made on the same stars at Dunnose in the Isle of Wight gave 3° 57′ 13″,1 and 2° 36′ 12″, 2 for the amplitudes of the arcs respectively subtended by those stations and the one just mentioned.

The bearings of the stations connecting Burleigh Moor and Dunnose, and also the bearings of the stations, connecting Delamere Forest and Black Down, from the parallel to the meridians observed at each extremity of both arcs, are given in this section, from whence it has appeared, after applying the necessary corrections, that 1482852,5 feet is the length of the arc intercepted by the parallels of Burleigh Moor and Dunnose, and 925188,5 feet for the meridional arc comprehended by the stations Delamere Forest and Blackdown. The length of the degree of the meridian at the middle point between Dunnose and Burleigh Moor, lat. 52° 34′ 45″, derived from the data supplied in this article, is 60823 fathoms: the length of a degree at the middle point between Dunnose and Clifton Beacon, latitude 52° 2′ 19″, as derived from the former measurement, being 60820 fathoms: see the Philosophical Transactions for 1803, page 488. The close of the fifth Section, shows that the subtence of the arc on the meridian of Delamere Forest, reaching

from that station to Black Down in Dorsetshire, both in the heavens and on the earth, are consistent, or nearly so, with the celestial and terrestrial contents of the arcs between Burleigh Moor and Dunnose, the computed and observed difference of latitude between Dunnose and Delamere Forest, agreeing within a second.

The sixth Section contains the bearings and distances of the stations from the parallels to their respective meridians and perpendiculars, with the longitudes and latitudes deduced therefrom. The meridians to which the several stations have been so referred, are those passing through Greenwich, Clifton Beacon, Burleigh Moor, Delamere Forest, Moel Rhyddlad in Anglesea, and Blackdown. The directions of the meridians at these stations, have been observed at different periods in a careful manner, and the stations in the vicinity of each, have been referred to its respective meridian, and those midway between two meridians, have been referred to both.

The latitudes of Clifton Beacon, Burleigh Moor, and Delamere Forest are given as deduced from the observations made with the zenith sector at those stations, combined with the observation formerly made at Dunnose and Greenwich, taking 51° 28′ 40″ as the latitude of the latter. The latitude of Moel Rhyddlad has been found from that of Delamere Forest by computation. This section also contains the latitudes and longitudes (derived from the bearings and distances) of the most important places found in the secondary triangles given in the third and fourth Sections: like the principal stations, these have been referred to the nearest primary meridians.

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ACCOUNT

OF A

TRIGONOMETRICAL SURVEY.

SECTION FIRST.

ARTICLE I. *Angles of the great Triangles observed in the Years* 1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, *and* 1809.

At Arbury Hill.

Between	°	′	″	Mean.
Corley and Helkinton -	71	0	5,75 7,5	6,5
Burrow Hill and Helkinton	27	3	31,25	
Bardon Hill and Helkinton	36	45	28 34 34,75 30,75	31,75
Epwell and Helkinton - -	160	57	10,75 12 13 13,5	12,25

At Burrow Hill.

Arbury Hill and Helkinton -	143	13	50,5 52	51,25

At Helkinton.

Bardon Hill and Arbury Hill -	125	30	7 9	8
Bardon Hill and Tilton - -	50	10	48,75 47,75 43,5	46,5
Naseby and Arbury Hill - -	139	9	20	
Tilton and Arbury Hill - -	175	40	56,75 55,75 59	57,25

Between	°	′	″	Mean.
Bardon Hill and Naseby	95	20	23 21,25 24	″ 22,5
At Naseby.				
Helkinton and Tilton	125	48	3,75 5,25	4,5
At Tilton on the Hill.				
Beacon Hill and Stathern Point	74	51	58,75 58,25 59,75 59,75	59,25
Bardon Hill and Helkinton	79	16	43,5	
Burrow Hill and Stathern Point	9	5	4,5 3,5	4
Helkinton and Bardon Hill Summer House	79	14	56,75 56	56,5
Helkinton and Naseby	9	2	8,25 8,5	8,25
At Bardon Hill.				
Arbury Hill and Helkinton	17	44	19,75 21,25	20,5
Corley and Castle Ring	59	32	32,5 32	32,25
Holland Hill and Stathern Point	39	39	16,25 16,75	16,5
Stathern Point and Helkinton	93	15	27,75 28,25	28
Corley and Helkinton	56	9	34,25 34,75	34,5
Tilton and Helkinton	50	32	31,25	
At Stathern Point.				
Tilton and Bardon Hill	56	44	45,25 45,25	45,25

Between	°	′	″	Mean.
Bardon Hill and Holland Hill -	71	33	48	50,75
			52	
			52	
Cropwell Bishop and Bottesford -	93	34	9	
At Holland Hill.				
Bardon Hill and Cropwell Bishop -	48	13	35	36,5
			36,25	
			37,75	
Bottesford and Cropwell Bishop -	40	17	28,25	28,75
			29,25	
Sutton Ashfield and Lincoln Minster -	98	5	59,25	59,5
			59,75	
Stathern Point and Lincoln Minster	73	30	59,25	59
			58,75	
Bardon Hill and Stathern Point -	68	46	53,75	52,5
			51,25	
			53	
At Orpit.				
Holland Hill and Sutton Ashfield -	21	27	19,5	20,5
			20	
			20,5	
			21	
			21,75	
Bardon Hill and Weaver Hill -	99	5	28	30,25
			30,5	
			32,5	
Castle Ring and Weaver Hill -	43	2	17	15
			14,75	
			13,25	
Weaver Hill and Hathersage -	97	49	55	56,25
			56,5	
			57	

At Castle Ring.

Between	°	′	″	Mean.
Orpit and Weaver Hill - -	25	21	43	43,5
			44	
The Wrekin and Weaver Hill -	105	18	58,5	58,75
			58	
			58,5	
			59,5	
Weaver Hill and Bardon Hill -	80	54	27,5	28
			28,5	
Ashley Heath and Weaver Hill -	61	9	42	42,75
			43,5	
Bar Beacon and The Wrekin -	89	55	47,5	48,75
			48,75	
			49	

At Bar Beacon.

Between	°	′	″	Mean.
Castle Ring and Bardon Hill -	74	45	31	30
			31,5	
			28	
Bardon Hill and Corley - -	48	55	50,5	50
			49,5	
Castle Ring and Corley - - -	123	41	18	19
			20	
Lyckey Hill and The Wrekin -	84	46	12,5	13
			13,5	
The Wrekin and Castle Ring -	69	24	29,75	32
			32	
			32,5	
			33	

At Horsemoor Hill.

Between	°	′	″	Mean.
Lidlington and Trusler Hill -	28	43	52,5	52,75
			53	
Trusler Hill and Hill Farm - -	77	33	58	58,75
			59,5	

At Lilleyhoe.

Between	°	′	″	Mean.
Lidlington and Royston - -	115	18	36,5	36″
			36,5	
			35	
Bowbrickhill and Royston - -	139	18	11	13
			15	

At Royston.

Between	°	′	″	Mean.
Lilleyhoe and Lidlington - -	23	43	40,5	41,75
			42	
			42,25	
Lilleyhoe and Orwell - -	126	8	16,25	16,75
			17,5	
Maddingly and Balsham - -	41	12	36	33,75
			31,5	
Lilleyhoe and Maddingly - -	135	53	42,75	43,5
			44,5	
			42,75	
			44	
Balsham and Haddenham Spire -	41	11	43,25	46,75
			48,25	
			49	
Lidlington and Maddingly - -	112	10	2,5	3,5
			4,75	
Lidlington and Orwell - -	102	24	39,5	
Orwell and Balsham - - -	50	58	3,5	
Lilleyhoe and Balsham - -	117	6	23	23
			23,25	
Lidlington and Balsham - -	153	22	57,75	

At Orwell.

Between	°	′	″	Mean.
Maddingly and Balsham - -	54	0	43,25	44,5
			43,5	
			44,75	
			45,75	

Between	°	′	″	Mean.
Royston and Lilleyhoe	35	24	19,25	20
			19,5	
			20,75	
			20,75	
Maddingly and Newmarket	50	58	0,5	1
			1,5	
Lilleyhoe and Balsham -	137	15	29	29
			29	
Newmarket and Balsham -	19	7	2,5	3
			3,5	
Balsham and Royston -	101	51	21,25	21,5
			21,75	
Lilleyhoe and Maddingly - -	168	43	36,5	37,25

At Maddingly.

	°	′	″	Mean.
Northy and Balsham - -	96	47	57,5	58,25
			58,75	
Orwell and Balsham	102	57	26,25	27,75
			27,25	
			29,5	
Orwell and Haddenham -	160	14	32,75	33
			33,25	

Near Balsham.

	°	′	″	Mean.
Haddenham and Newmarket -	66	59	13,25	14
			13,5	
			14,75	
			14,75	
Maddingly and Haddenham -	40	24	23,5	24
			24,75	
Orwell and Maddingly -	23	1	49,25	
Royston and Newmarket	157	36	0,25	

Between	°	′	″	Mean.
Orwell and Newmarket	180	25	23,25 25	24

At Newmarket.

	°	′	″	Mean.
Orwell May-pole and Royston -	13	50	33,25 33,75	33,5
Royston and Balsham - -	14	50	44 45,75 46,5	45,5
Brandon and Balsham - -	176	0	11,25 12	11,5
Brandon and Littleport	58	55	3,5 4 5	4,25
Orwell May-pole and Royston -	13	50	33,5	
Royston and Balsham - -	14	50	45,5	
Brandon and Balsham - -	176	0	11,25 12	11,5
Brandon and Littleport -	58	55	3,5 4 5	4,25
Orwell May-pole and Littleport -	88	23	40	

At Brandon.

	°	′	″	Mean.
Thetford and Bartenham - -	53	16	31,25 31,25 31,75	31,5
Bartenham and Newmarket -	94	39	21,75 21,75 22,25 22,75	22,25
Newmarket and Littleport - -	66	5	13,5 15 19	15,75

Between	°	′	″	Mean.
Littleport and Methwold - -	62	25	47 49,25	48
Methwold and Oxborough -	25	4	58 58,5 59	58,5
Oxborough and Thetford - -	58	27	57 59	58
Methwold and Thetford - -	83	32	53,75	

At Clifton.

Hathersage and Staincross - -	65	54	33,5 34,5	34
Hathersage and Bradfield Point -	24	16	10 11 12 12,5	11,5

At Hathersage.

Bradfield Point and Pit Hill -	32	4	18,75 19,25 19,75 19,75 20	19,5
Orpit and Pit Hill - -	150	54	39,25 41	40
Staincross and Beacon Hill near Clifton	50	45	24,75 28,5	26,75
Orpit and Axedge - -	69	35	47 47,25	47
Pit Hill and Lord's Seat - -	51	6	3,25 3,75 5	4
Lord's Seat and Axedge - -	30	12	46 46,25	46

At Lord's Seat.

Between	°	'	"	Mean.
Weaver Hill and Axedge - -	28	17	50,75 52,75	51,75
Hathersage and Axedge - -	117	19	50,25 52	51
Pit Hill and Hathersage -	59	1	41 41,25 42,5 43,75	42
Hathersage and Weaver Hill -	89	1	59 59,25	59
Pit Hill and Weaver Hill - -	148	3	37,75 38 40 41 42,5	40

At Weaver Hill.

	°	'	"	Mean.
Welsh Hill and Orpit - -	172	5	36,5 37 38	37,25
Orpit and Axedge - - -	89	53	37 39,25	38
Lord's Seat and Orpit - -	73	19	28 28,25	28
Castle Ring and Ashley Heath - -	64	23	4,25 5,25	4,75
Ashley Heath and Mow Copt -	42	11	17,5 22	18,75

At Cleeve Hill.

	°	'	"	Mean.
Malvern Station and Breadon Hill -	33	44	27,5 28 28 29.5 29,5	28,5

Between	°	'	"	Mean.
Broadway and Malvern Station	93	4	9,5	10"
			10,5	
Broadway and Stow on the Wold	49	21	57,75	
Pen and May Hill -	82	59	35,5	37,25
			37,5	
			37,5	
			38,5	
May Hill and Malvern Station	48	29	38,5	40,5
			39,5	
			40	
			41,5	
			42	
			42	

At Malvern Station.

May Hill and Cleeve - -	64	46	18,75	19
			19	
May Hill and Cradle Mountain -	56	8	15,5	17,25
			18	
			18	
Trelleg Beacon and Cradle Mountain -	40	14	16	17
			18,25	
Trelleg Beacon and Symmond's Hall -	34	56	38,25	
Cradle Mountain and Brown Clay Hill	84	5	30,5	32,5
			34,75	
Cradle Mountain and Stow - -	49	58	40,5	
Broadway and Cleeve - -	27	27	35	

At May Hill.

Malvern Station and Breadon Hill -	37	1	22	22,25
			22	
			22,5	

Between	°	′	″	Mean. ″
Trelleg Beacon and Cradle Mountain -	49	56	23	24,25
			23,75	
			26,25	
Cradle Mountain and Malvern Station	97	43	33,75	34
			34	
			34,25	
Trelleg Beacon and Symmond's Hall -	69	12	37	37,75
			38,5	
Cleeve and Malvern Station -	66	44	0,5	2
			1	
			4	

At Trelleg Beacon.

	°	′	″	Mean. ″
Cradle Mountain and May Hill -	99	37	47	48
			48,25	
			49	
Cradle Mountain and Mynydd Mane -	56	17	8	9,25
			8,5	
			10,25	
			10,75	
Dundry Beacon and Mynydd Mane -	79	23	12,5	13,5
			13	
			14,5	
Cradle Mountain and Malvern Station	83	11	44,75	45,5
			46	
Symmond's Hall and May Hill -	59	21	22	23
			22,25	
			25	
May Hill and Malvern Station -	16	26	1,5	3
			2,5	
			4	
			4,5	
Malvern Station and Symmond's Hall	75	47	26	

At Mynydd Mane.

Between	°	′	″	Mean.
Cradle Mountain and Trelleg Beacon -	78	56	7	8″
			9	
Dundry Beacon and Trelleg Beacon -	63	21	8	
			8,5	
			9	9
			10	
			10,5	
Cradle Mountain and Llangeinor Mountain	89	22	37,5	39,25
			41	
Llangeinor Mountain and Garth Hill -	37	25	37,5	
Llangeinor Mountain and Capelante -	41	35	35	36,25
			36,25	
			37	
			37	

At Garth Hill.

	°	′	″	Mean.
Llangeinor Mountain and Mynydd Mane	106	57	58	58,25
			58,5	
Llangeinor Mountain and Flatholme's Light House - - - -	152	52	33,5	34
			34,5	
Llangeinor Mountain and Ogmoor Down	51	2	31,25	32
			31,25	
			33,5	
Ogmoor Down and Duncary Beacon -	42	42	28	28,75
			28,25	
			28,75	
			30	
Llangeinor Mountain and Duncary Beacon	93	44	58	59
			58,25	
			59,75	

At Ogmoor Down.

	°	′	″	Mean.
Llangeinor Mountain and Garth Hill -	61	53	34,25	34,5
			34,75	

Between	°	′	″	Mean.
Duncary Beacon and Garth Hill -	109	40	6	6,75
			6,25	
			7	
			7,25	
Duncary Beacon and Cefn Bryn -	110	56	48	49,25
			48,25	
			50,5	
			50,75	
Cefn Bryn and Margam Down -	43	7	52,75	
Margam Down and Llangeinor -	34	21	33,75	34,25
			34,5	
Margam Down and Newton Down Signal Staff - - - -	15	44	56,5	57
			57	
			57,5	
Margam Down and the Signal Staff on Vole Vour near Neath - -	11	18	22	23,25
			22,25	
			23,75	
			25	
Margam Down and the Signal on Kilvey Hill near Swansea - -	22	33	21	22
			21,5	
			22,5	
			22,5	
Margam Down and Cefn Bryn Signal Staff	43	8	12,5	14
			13,5	
			14,5	
			15,5	
Margam Down and the Signal Staff near Cowbridge - - -	117	25	54,5	55
			55,5	
Duncary Beacon and Parracombe -	31	4	51,25	

Between	°	′	″	Mean.
Parracombe and Hangman Hill - -	15	57	35	35,25
			35	
			35	
			36,25	

At Llangeinor Mountain.

Cradle Mountain and Mynydd Mane -	42	1	13,25	14
			14,75	
Mynydd Mane and Garth Hill -	35	36	24,25	25
			26	
Flatholme's Light House and Garth Hill	13	36	8	8,25
			8,5	
Mynydd Mane and Capelante - -	71	54	46	47,5
			46,25	
			48,5	
			49,5	
Ogmoor Down and Garth Hill -	67	3	52,25	52,5
			52,75	
Ogmoor Down and Margam Down -	50	3	3	4,25
			5,5	
Margam Down and Trecastle Beacon	104	20	9	9,5
			9,5	
			10,25	
Garth Hill and Duncary Beacon - -	61	42	51,5	

At Margam Down.

Ogmoor Down and Llangeinor Mountain	95	35	22	22,5
			23	
Ogmoor Down and Cefn Bryn -	116	54	15,5	16,5
			17,5	
Cefn Bryn and Lannon - -	32	1	11	12
			13	

Between	°	′	″	Mean. ″
Llangeinor Mountain and Trecastle Beacon	56	39	49	
			50,25	50,5
			52	
Lannon and Trecastle Beacon - -	58	49	18	18
			18	
At Cefn Bryn.				
Ogmoor Down and Duncary Beacon -	31	35	27,25	27,25
			27,25	
Ogmoor Down and Margam Down -	19	57	51	
			51,5	52
			53,5	
Margam Down and Lannon - -	91	3	15	
			17,25	16,25
			17	
Lannon and Marros Beacon - -	57	55	37,25	38,25
			39,25	
At Marros Beacon.				
Lannon and Cefn Bryn	31	13	13	
			15,75	15
			16	
Lannon and Precelly Mountain -	115	22	28	
			29	
			29	29,5
			30,5	
			31	
Precelly Mountain and Highgate Mountain	83	40	18,5	
			19,5	20
			20,75	
			21,25	
Highgate Mountain and Newton Down	19	5	59,75	

At Lannon.

Between	°	′	″	Mean.
Margam Down and Cefn Bryn -	56	55	34	″ 34,5
			34,5	
			35	
Cefn Bryn and Marros Beacon -	90	51	7	8
			8,25	
			9,25	
Margam Down and Trecastle Beacon -	56	12	9,25	10,5
			10	
			11,25	
			11,5	
Trecastle Beacon and New Inn Hill -	74	9	12,25	13
			12,75	
			13,5	
New Inn Hill and Precelly Mountain -	53	5	24	25
			26	
Precelly Mountain and Marros Beacon	28	46	24,75	25,25
			25,75	

At Precelly Mountain.

Marros Beacon and Lannon - -	35	51	6,75	
Marros Beacon and Highgate Mountain	47	19	13	
Plumstone Down and St. Ann's Hill -	20	26	6	6
			5,75	

At Plumstone Down.

St. Ann's Hill and Precelly Mountain -	140	0	42,5	42,75
			43	
Precelly Mountain and Newton Down	85	23	56,5	

At St. Ann's Hill.

Precelly Mountain and Plumstone Down	19	33	12,25	13
			12,75	
			14	

Between	°	′	″	Mean.
Plumstone Down and Newton Down -	50	45	37	

At Highgate Mountain.

	°	′	″	Mean.
Marros Beacon and Precelly Mountain	49	0	26,25	27,5
			27,75	
			28	
Marros Beacon and Newton Down -	58	6	19,75	20,5
			20	
			21	
			21,25	

At Newton Down.

	°	′	″	Mean.
Marros Beacon and Highgate Mountain	102	47	39	40,5
			40,5	
			41,75	
Marros Beacon and Precelly Mountain	65	7	50	51,5
			50,75	
			52	
			53,25	
Precelly Mountain and Plumstone Down	52	45	33,75	34,5
			34,5	
			35,75	
Plumstone Down and St. Ann's Hill -	74	37	37,25	39,25
			38,5	
			40,5	
			40,75	

At New Inn Hill.

	°	′	″	Mean.
Lannon and Trecastle Beacon - -	63	13	18	18,25
			18,5	
Lannon and Precelly Mountain - -	94	38	58	58,75
			58,5	
			59,5	
Trecastle Beacon and Talsarn - -	95	9	37,75	38,5
			38	
			39,5	

Between	°	′	″	Mean.
Precelly Mountain and Capel Kynon -	59	49	27,25	
			28	
			29,5	29″
			30	
			30,75	
Capel Kynon and Talsarn - -	47	8	34,75	
			35,5	36
			37,25	
At Talsarn.				
Precelly Mountain and New Inn Hill -	43	49	8,25	9
			9,75	
New Inn Hill and Trecastle Beacon -	50	4	48,75	
			50	50,25
			50,25	
			51,75	
New Inn Hill and Capel Kynon -	44	38	23,25	
			24	24,25
			25,75	
Tregarron Down and Trecastle Beacon	56	46	42,75	43
			43,25	
Tregarron Down and Aberystwith Station	74	32	0,5	1,5
			2,75	
Tregarron Down and Llandowy Brevi Down	30	32	3	
			3	4,25
			4,75	
			6,25	
At Capel Kynon.				
Precelly Mountain and New Inn Hill -	90	28	19,25	
			19,5	20,25
			21,75	
New Inn Hill and Talsarn - -	88	12	59,75	

At Tregarron Down.

Between	°	′	″	Mean.
Talsarn and Trecastle Beacon - -	98	53	0	1″
			1,75	
Plynlimmon and Aberystwith Station -	44	23	31,25	31,5
			31,75	
Aberystwith Station and Talsarn -	59	51	6,5	8
			7,5	
			8	
			9,75	
Plynlimmon and Llandinam Mountain -	43	44	2	
Llandinam Mountain and Capellante -	96	31	43,5	44,5
			45,75	
Talsarn and Llandowy Brevi Down -	61	59	23	23,5
			23,5	
			24	

At Aberystwith Station.

Between	°	′	″	Mean.
Plynlimmon and Tregarron Down -	66	50	29	30
			30,5	
			31	
Tregarron Down and Talsarn - -	45	36	53,5	55
			55,25	
			56	
Rhiw Mountain and Pengarn Mountain	45	23	55,75	56,5
			56,5	
			57	
Rhiw Mountain and Snowdon - -	39	44	27	28
			29,25	
Rhiw Mountain and Cader Idris -	60	6	50	
Plynlimmon and Cader Idris - -	57	53	27,5	

At Llandinam Mountain.

Between	°	′	″	Mean.
Long Mountain and Stow Hill - -	58	27	19,25	20
			21	

Between	°	′	″	Mean.
Long Mountain and Radnor Forest -	93	14	17 18,25 19	18
Long Mountain and Arran Fowddy -	65	49	26	
Plynlimmon and Arran Fowddy -	54	55	22	
Long Mountain and Plynlimmon -	120	44	50 50,5	50,25
Plynlimmon and Rodney's Pillar -	115	35	24 27	25,5
Plynlimmon and Tregarron Down -	49	3	6,75 8 9	8
Tregarron Down and Capellante -	49	37	25,5	

At Stow Hill.

	°	′	″	Mean.
Long Mountain and The Wrekin Staff -	52	20	57 57,5 58,25 59	58
Brown Clay Hill and The Wrekin Staff	23	28	31,25 32 32,75	32
Brown Clay Hill and Long Mount Pole	40	7	49,75 51,25 52,5	51,25
Long Mountain and Long Mount Pole	35	41	38,75	
Brown Clay Hill and Malvern Station -	56	46	15 16,5 16,5	16
Malvern Station and Cradle Mountain -	67	53	49 51	50

Between	°	′	″	Mean.
Long Mountain and Llandinam Mountain	67	32	18,5	20″
			20	
			21	
Llandinam Mountain and Radnor Forest	51	3	11,25	12
			11,75	
			13	
Radnor Forest and Cradle Mountain -	40	54	57,5	57,25
			57	
At Radnor Forest.				
Long Mountain and Llandinam Mountain	53	29	5	
Llandinam Mountain and Stow Hill -	94	9	49·5	50
			50,75	
Stow Hill and Cradle Mountain -	120	30	47	47
			47	
At Symmond's Hall.				
May Hill and Trelleg Beacon - -	51	26	3	4,25
			4	
			5,5	
Trelleg Beacon and Malvern Hill -	69	15	56,5	59
			59	
			61,5	
Trelleg Beacon and Dundry Beacon -	70	4	23	23,5
			24,25	
At Rhiw Mountain.				
Llwydiart Mountain and the Signal Staff on Holyhead Mountain - -	33	24	5,75	7,5
			6,5	
			10,5	
Llwydiart Mountain and Ynaliog Mountain	138	3	37,5	37,75
			38	
Ynaliog Mountain and Snowdon -	162	28	37	37,75
			38,5	

Between	°	′	″	Mean.
Llwydiart Mountain and and Bwlch Mawr	14	43	6,25	7
			7	
			7,75	
Pengarn Mountain and Snowdon -	58	14	49	49,5
			49,5	
			50	
Pengarn Mountain and Bwlch Mawr -	67	56	45	45,75
			46,5	
Pengarn Mountain and Cader Idris -	6	18	10,75	12
			12	
			13	
At Llwydiart Mountain.				
Llanelian Mountain and Moel Rhyddlad	37	2	59	59,75
			60	
			60,5	
Rhiw Mountain and Moel Rhyddlad -	83	1	35	35,25
			35,5	
Llanelian Mountain and the Signal Staff on the Great Orme's Head - -	105	49	43	45
			45,5	
			45,5	
			46	
Moel Rhyddlad and Snowdon - -	131	13	5,5	
			7,5	
			8,25	
			10,25	
Moel Rhyddlad and the Signal Staff on Holy-head Mountain - - -	17	52	33,25	34,25
			33,75	
			34,25	
			36,5	
Moel Rhyddlad and Ynaliog Mountain -	78	18	19	19,5
			20	

Between	°	′	″	Mean.
Moel Rhyddlad and Bwlch Mawr -	95	4	4,5 5 5,5	5
At Llanelian Mountain in Anglesea.				
Llwydiart Mountain and Snowdon -	7	25	39,5 42,5	41
Llwydiart Mountain and Llanelian Mountain	37	47	29,5 30,5 31 31	30,[illegible]
Llwydiart Mountain and Moel Rhyddlad	111	13	17 18 19,5 20 20,25 20,5	19
Moel Rhyddlad and the Signal Staff on the Skerry Island - - -	15	46	31,5 32 32,5	32
Llwydiart Mountain and the Signal Staff on Table Hill - - -	20	7	30,25 30,75 31 32,75 33,25	31,5
Llwydiart Mountain and the Signal Staff on the Great Orme's Head - -	46	36	30 31,75 32 33	31,75

Between	°	′	″	Mean.
Llwydiart Mountain and the Signal Staff on Holyhead Mountain -	98	31	57,25	
			58,25	
			60,25	59″
			60,5	
Garreg Mountain and Llanelian Mountain	13	7	8,25	

At Moel Rhyddlad.

	°	′	″	Mean.
Llanelian Mountain and Skerry Light-house	121	18	18	
			19	
			19	19,5
			19,5	
			21	
Llanelian Mountain and Llwydiart Mountain	31	43	42,5	
			43,5	
			44,5	44,5
			45,5	
			46	
Llwydiart Mountain and Snowdon -	24	0	54,5	
			54,5	54,75
			55	
Llwydiart Mountain and Rhiw Mountain	71	53	56,5	
			57,75	58,5
			59,25	
			60	
Llwydiart Mountain and Holyhead Mountain Signal Staff - - -	116	10	0	
			0,5	1,5
			4	
Llwydiart Mountain and Ynaliog Mountain	78	24	42	
			42,75	43
			44	

Between	°	′	″	Mean.
Llwydiart Mountain and Bwlch Mawr -	48	35	21	
			21,25	21,75
			22	
			22,75	
June 22. Pole Star at its greatest eastern elongation from the Meridian and the top of the Skerry Light House - -	42	36	57,5	
29.		37	7	4
30.			7,5	
June 23. The Pole Star at its greatest western elongation from the Meridian and the top of the Skerry Light House -	36	47	12,5	
24.			14,5	12
29.			9	
At Pengarn Mountain.				
Rhiw Mountain and Snowdon - -	62	48	16	16,25
			16,5	
Rhiw Mountain and Bwlch Mawr -	36	35	43	
			43,5	43,5
			43,5	
Rhiw Mountain and Cader Idris -	140	14	20	
			21,5	21
			22	
Cader Idris and Aberystwith Station -	111	48	50,75	51,5
			52	
At Plynlimmon.				
Llandinam Mountain and Arrennig -	99	24	18	18,5
			19	
Llandinam Mountain and Cader Idris	120	25	55,5	
			58	58
			60	

Between	°	′	″	Mean
Llandinam Mountain and Rodney's Pillar	42	12	9	
			9,5	
			10,5	11
			11	
			12,5	
			13	
Llandinam Mountain and Radnor Forest	16	46	0,5	1,25
			2	
Llandinam Mountain and Tregarron Down	87	12	50	
			50,5	51
			52,5	
Tregarron Down and Aberystwith Station	68	45	59	
			60	60
			60,75	
Llandinam Mountain and Arran Fowddy	92	2	8,5	9,[illegible]
			10,75	
At Long Mountain.				
Cyrn y Brain Mountain and Arrennig	47	56	2	2,[illegible]
			2,75	
Cyrn y Brain Mountain and The Wrekin	93	3	52,5	
			52,5	53,25
			54,5	
Cyrn y Brain Mountain and Hawkeston Obelisk - - - -	59	58	31,5	
			34	33,5
			35	
Stow Hill and The Wrekin - -	84	0	3	3,5
			4	
Ashley Heath and Hawkeston Obelisk -	4	44	32	32
			32	
Stow Hill and Llandinam Mountain -	54	0	22	
			23	22,75
			23	

Between	°	′	″	Mean.
Llandinam Mountain and Arrennig -	80	59	40 40,25	40
Llandinam Mountain and Cader Idris -	53	0	12,5 13,5	13
Llandinam Mountain and Rodney's Pillar	155	0	23	
Stow Hill and a very high Pole near Treginnan - - - -	37	12	11,25 12 13	12
Cyrn y Brain Mountain and Trinity Spire, Chester - - - -	19	32	56 56,5 57	56,5
Cyrn y Brain Mountain and Cader Ferwyn	26	20	52,5 53	52,75
Cyrn y Brain Mountain and Arran Fowddy	60	57	38	
Llandinam Mountain and Arran Fowddy	67	58	3 3,5	3,25
Llandinam Mountain and Radnor Forest	33	16	37,75 40	39

At Brown Clay Hill.

Ashley Heath and Rodney's Pillar -	64	19	8	
Ashley Heath and Long Mount Pole -	83	43	56 56	56
Ashley Heath and Hawkeston Obelisk -	19	10	1,75 2,25	2
Stow Hill and The Wrekin - -	122	50	14,5 14,75	14,5
Stow Hill and Long Mount Pole -	47	12	28,75 31,25 32	30,75

Between	°	′	″	Mean.
Stow Hill and Malvern Station -	89	6	54,25	55
			55,5	
Bar Beacon and The Wrekin - -	68	11	15,75	
At Ashley Heath.				
Weaver Hill and The Wrekin -	129	55	22,5	23
			23	
			24,5	
Weaver Hill and Mow Copt - -	45	40	37	38
			37,25	
			38	
			39,75	
Delamere Forest and Cyrn y Brain Mountain	44	30	31	32,75
			32,5	
			34,5	
Delamere Forest and Hawkeston Obelisk	80	37	19	21
			21	
			22,5	
Delamere Forest and Rodney's Pillar -	84	29	49,5	50,75
			52	
Delamere Forest and Mow Copt -	58	17	23	24,5
			24,5	
			26	
Cyrn y Brain Mountain and The Wrekin	81	36	0	1,5
			1,5	
			2,5	
Brown Clay Hill and Rodney's Pillar -	47	26	29	30,25
			31,5	
Brown Clay Hill and Hawkeston Obelisk	51	18	49,25	50
			50	
			50,75	
Brown Clay Hill and the Pole on Long Mount Forest - - -	21	27	3,5	5,75
			6,5	
			7,25	

Between				Mean.
The Wrekin and Long Mount Pole -	15	37	25	25,25
			25,5	

At Cyrn y Brain Mountain.

Delamere Forest and Ashley Heath -	45	50	50,5	51,5
			51	
			52,25	
			52,75	
Delamere Forest and Hawkeston Obelisk	60	26	45	45,5
			45,5	
			46	
Delamere Forest and Garreg Mountain	74	23	15,5	15,5
			15,75	
Ashley Heath and Long Mount Pole -	55	20	33,5	35,5
			36,75	
Ashley Heath and Rodney's Pillar -	62	23	3,5	4
			4,75	
Ashley Heath and Long Mountain -	68	44	34	34,5
			34,5	
			34,5	
Ashley Heath and The Wrekin -	30	28	28	30,5
			31,5	
			32	
Long Mountain and Arrennig -	78	27	45,5	46,5
			47,5	
Long Mountain and Hawkeston Obelisk	54	8	38,5	40
			40,5	
			41	
Long Mountain and Afran Fowddy -	58	48	27,5	
Long Mountain and Cader Ferwyn -	48	54	55,5	57
			57	
			59	
Snowdon and Moel Fammau - -	69	30	52,5	54
			54	
			55,5	

Between	°	′	″	Mean.
Llanelian Mountain and Moel Fammau	33	49	6 6,5 7	6,5
Llanelian Mountain and Garreg Mountain	40	12	19 19,5	19,25
Garreg Mountain and Arrennig -	92	33	30,5 31 33	31,[illegible]

At Llanelian Mountain in Denbighshire.

	°	′	″	Mean.
Moelfre Issa and the Signal Staff on the Great Orme's Head - -	138	45	46 46,5 47,5 48	47
Garreg Mountain and the Signal Staff on the Great Orme's Head - -	124	52	9,5 10 12	10,5
Garreg Mountain and Moel Fammau -	27	59	37,5 38,5 40	38,75
Arrennig and the Signal Staff on the Great Orme's Head	135	0	4,5 4,75 5,75	[illegible]
Cyrn y Brain Mountain and the Signal Staff on the Great Orme's Head -	166	16	20,5 21,5 23	21,75
Llanelian Mountain and the Signal Staff on the Great Orme's Head - -	23	15	50,5 52 52,5 52,5	52

Between	°	′	″	Mean.
Cyrn y Brain Mountain and Cader Ferwyn	25	44	41,5	43,5
			44	
			44,5	
Cyrn y Brain Mountain and Billinge Beacon	55	42	37,5	37,75
			38	
At Garreg Mountain.				
Llanelian Mountain in Denbighshire and the Signal Staff on the Great Orme's Head	15	12	23	25
			24	
			26,5	
			26,5	
Llanelian Mountain in Denbighshire and Cyrn y Brain Mountain - - -	98	23	30	31,5
			30,5	
			32	
			32	
			32,5	
Cyrn y Brain Mountain and Arrennig -	52	12	57,5	59
			59,5	
			59,5	
Cyrn y Brain Mountain and Delamere Forest	62	29	12,25	13,75
			14	
			14,75	
Llanelian Mountain in Denbighshire and Moel Fammau - - -	92	43	51,75	53
			53	
			54,25	
Llanelian Mountain in Denbighshire and Llanelian Mountain in Anglesea -	18	44	52,25	53,5
			53,5	
			54,75	
Cyrn y Brain Mountain and Gwaunysgaer Down - - - - -	132	42	9	10,75
			11	
			11,75	

Between	°	′	″	Mean.
Snowdon and Gwaunysgaer Down -	51	35	9,25	
			10,75	10,5
			11	
Cyrn y Brain Mountain and Arran Fowddy	41	30	5,75	
			6,5	7
			8,5	
Billinge Beacon and Gwaunysgaer Down	122	19	48	
			48,5	
			50	50
			53	
At Delamere Forest.				
Cyrn y Brain Mountain and Garreg Mountain	43	7	32	
			32,5	33
			34	
Cyrn y Brain Mountain and Ashley Heath	89	38	37	
			38	38,5
			40	
Cyrn y Brain Mountain and Hawkeston Obelisk - - - -	63	50	20	
			21	21
			22,5	
Ashley Heath and Mow Copt - -	38	8	17	17,5
			18,25	
Ashley Heath and Rodney's Pillar -	55	4	35,5	
Garreg Mountain and Billinge Beacon	74	56	54	
			55,5	56
			57	
			58,5	
Mow Copt and Kelsall Staff. - -	111	32	48	
			48,5	49
			50	
Kelsall Staff and Denham Spire -	140	12	4,5	
			6	6,25
			8	

Between	°	′	″	Mean.
Cyrn y Brain Mountain and Moel Fammau	20	53	56,5	57,5
			58,5	
Oct. 17. Pole Star at its greatest apparent western elongation and Kelsall Staff	135	8	5	8,5
18.			6,75	
19.			8,25	
21.			14	
Oct. 18. Pole Star at its greatest apparent eastern elongation from the Meridian and Kelsall Staff	140	53	56,75	3,75
19.		54	10,75	
20.			2,75	
22.			4,25	

At West End of Base.

Gwaunysgaer Down and East End of Base	20	34	1,5	2,5
			2,5	
			3,5	
Moelfre Issa and East End of Base	75	45	16	17
			17,5	
			17,75	
Moelfre Issa and Cave Hill Signal Staff	70	51	14,5	15,5
			15	
			17	

At East End of Base.

Gwaunysgaer Down and West End of Base	135	11	59	59,5
			59,25	
			59,5	
			59,5	
			60	
			60	
Moelfre Issa and West End of base	40	12	32	33
			34	

At Gwaunysgaer Down.

Between	°	′	″	Mean.
East End of Base and West End of Base	24	14	0,5	
			1,5	1,5
			2,25	
			2,5	
West End of Base and Moelfre Issa -	21	40	24	
			24,5	25
			27	
Moelfre Issa and the Signal Staff on the Great Orme's Head - -	37	42	34	34,75
			35,5	

At Moelfre Issa.

East End of Base and West End of Base	64	2	10	
			10	11
			12	
West End of Base and Gwaunysgaer Down	62	0	18,25	
			19	19,5
			20,75	
Gwaunysgaer Down and the Signal Staff on the Great Orme's Head -	117	26	10	
			10,5	11,25
			13	
Llanelian Mountain and the Signal Staff on the Great Orme's Head - -	21	49	25	26
			27	

At Burleigh Moor.

Easington and Hartlepool Signal Staff	124	53	42,5	
Easington and Danby Beacon -	40	44	47	
			50	
			51	51,5
			55	
			55	

Between	°	′	″	Mean.
Barnaby Moor Pole and Easington -	160	23	52	52,5
			53	
Barnaby Moor Pole and Roseberry Top	42	58	55	56,5
			55,5	
			57,5	
			58	
Easington and Wordeslow Hill -	131	33	54,5	56
			56,5	
			57	
At Easington Heights.				
Barnaby Moor Pole and Burleigh Moor	5	50	55	
Barnaby Moor Pole and Botton Head -	45	20	6	6,75
			7,5	
Botton Head and Loosehoe - -	26	13	22	22,5
			22	
			22,5	
			22,5	
			22,5	
Botton Head and Wordeslow Hill -	88	18	12,25	
Loosehoe and Stow Brow - -	65	0	34	36,5
			37	
			38,5	
Loosehoe and Fair Head - -	47	40	5	5,5
			5,5	
			6	
Burleigh Moor and Wordeslow Hill -	37	7	16	17
			18,25	
At Botton Head.				
Easington and Barnaby Moor Pole -	49	47	39	40,75
			41,5	
			42	
Easington and Hartlepool Signal Staff -	52	2	59	0,5
	|	3	1	
			2	

Between	°	'	"	Mean.
Easington and Roseberry Top -	48	52	20	21,25
			21,5	
			22,5	
Easington and Loosehoe - -	51	0	23	23
			22,25	
Loosehoe and Wilton Beacon -	62	15	1	
Loosehoe and Hambleton Down -	112	56	33,5	35
			33	
			35,5	
			36,5	
			37	
Loosehoe and Barnaby Moor Pole -	100	48	3,25	4,5
			5,5	
Wilton Beacon and Hambleton Down -	50	41	34,5	
Wilton Beacon and Hemingbrough Spire	19	20	11	11,5
			11	
			12,5	
Wilton Beacon and York Minster -	24	40	10,5	15,25
			17	
			18	
York Minster and Hambleton Down -	26	1	19	
Easington and Wordeslow Hill -	65	37	32,5	33
			33,5	
At Loosehoe.				
Botton Head and Easington - -	102	46	12	14
			13	
			13,5	
			14	
			15	
			15	
Easington and Fair Head - -	66	59	7	11,75
			11	
			13	
			16	

Between	°	′	″	Mean.
Easington and Stow Brow - -	75	20	37	38
			38	
			39	
Easington and Barnaby Moor Pole -	52	41	21,25	
Wilton Beacon and Botton Head -	105	51	29,5	
Wilton Beacon and Hambleton Down -	61	14	39	40,25
			41,5	
Botton Head and York Minster -	80	41	36	39
			38,5	
			40	
			41	
Botton Head and Hambleton Down -	44	36	46	49
			48	
			53	
Wilton Beacon and York Minster -	25	9	53,5	56,25
			56,5	
			58,5	
Wilton Beacon and Hemingbrough Spire	16	5	59	
Stow Brow and Pickering Common -	33	39	41,5	42,5
			42	
			44	
Stow Brow and Kirby Underdale Station -	75	30	45,5	
Botton Head and Barnaby Moor Pole -	50	4	54	

At Wilton Beacon.

	°	′	″	Mean.
Botton Head and Loosehoe - -	11	53	29	28,5
			28	
Loosehoe and Hambleton Down -	34	0	15	16,75
			16	
			17,5	
			18,5	

Between	°	'	"	Mean.
Hambleton Down and Botton Head -	22	6	50	
			50	
			51,5	
			51,5	51,5
			52	
			53,5	
Botton Head and Hemingbrough Spire	126	5	49,5	
			50,75	51,5
			51,5	
			52	
Botton Head and York Minster -	75	45	14	
			14,5	
			15	15
			15,5	
			16	
Hunsley Beacon and Hemingbrough Spire	58	16	36,5	37,75
			39,5	
Hunsley Beacon and York Minster -	108	37	9	
			9,5	10,25
			10	
			12,5	
Loosehoe and York Minster - -	87	38	40	
			43	42,25
			43,5	

At Hunsley Beacon.

Crowle and Wilton Beacon - -	113	21	8,5	
			14	12,25
			15	
Wilton Beacon and York Minster -	32	10	57	
			59	58,75
			59,5	
			60	
Crowle and York Minster - -	81	10	11,5	12,75
			14,5	

Between	°	'	"	Mean.
Crowle and Hemingbrough Spire	44	58	18	
			20	20,25
			23	
Wilton Beacon and Hemingbrough Spire	68	22	49	50,25
			51,5	

At Crowle.

	°	'	"	Mean.
Brayton Spire and Hunsley Beacon	74	48	16,5	
			18	18,5
			19	
			20,5	
Hemingbrough Spire and Hunsley Beacon	67	54	1	
			2	
			2	2,25
			2,5	
			3,5	
Gringley and Clifton -	46	54	33,5	
			33,5	
			34	
			36	35,5
			37,5	
			38	
Brayton Spire and Clifton -	85	11	1,25	
			2	
			2	2,5
			4,75	

At Staincross Heights.

	°	'	"	Mean.
Hathersage and Holme Moss - -	65	51	1,75	
			2,5	2,5
			3	
Hathersage and Bradfield Point -	8	48	40,75	
			42	42,75
			45,5	

Between	°	′	″	Mean. ″
Ledstone Beacon and Bradfield Point -	167	52	33,75	
			34,75	34,75
			35,5	
Ledstone Beacon and Holme Moss -	135	5	5,5	
			6,5	7
			9,5	
Hemingbrough Spire and Holme Moss	163	56	0,25	

At Boulsworth Hill.

	°	′	″	Mean.
Ingleborough and Bleasdale Forest -	45	51	56	
			56,5	56,5
			56,5	
			57	
Ingleborough and Pendle Hill -	39	22	46,75	
			47,25	48,25
			49,25	
			49,75	
Ingleborough and Great Whernside -	36	31	2,5	
			3	3
			3	
			3,75	
Wittle Hill and Bleasdale Forest -	76	12	11	12,75
			14,75	
Wittle Hill and Holme Moss -	57	44	10,5	
			11,5	11,75
			13,5	
Wittle Hill and Pendle Hill - -	82	41	12,75	
			17,75	17,5
			21,75	
Rumbles Moor and Great Whernside	51	53	32,5	35,75
			38,75	
Rumbles Moor and Pendle Hill -	127	47	25,25	26,75
			[illegible]	

At Ingleborough.

Between	°	′	″	Mean.
Black Comb and Helvellin Mountain -	35	15	14,5 16,5	15,5
Black Comb and Coniston Fell -	16	9	33,5 35,75 38,75	36
Black Comb and The Calf - -	61	35	32,25 34	33
Black Comb and Bleasdale Forest -	71	49	42 42,75 45,25	43,5
The Calf and Helvellin Mountain -	26	20	17 19,5	18,25
The Calf and Coniston Fell - -	45	25	55,75 57,75	56,75
The Calf and Shunnor Fell -	43	31	18,75 19,25	19
The Calf and Great Whernside -	109	42	5 10	7,5
Boulsworth Hill and Bleasdale Forest	54	11	28,5 29,75 29,75 30,75	29,75
Boulsworth Hill and Great Whernside	62	41	5,5 6,5 9,25 10	7,75
Great Whernside and Pennigant Mountain	5	33	15 17	16

At Rumbles Moor.

Hambleton Down and Black Hambleton	6	11	3,75 7 9,25	6,75

Between	°	′	″	Mean.
Hambleton Down and Great Whernside	67	17	43	44
			43,5	
			44,5	
			44,5	
Hambleton Down and York Minster -	36	2	19,5	20,25
			21	
Boulsworth Hill and Pendle Hill - -	20	24	4,75	6
			7,25	
Boulsworth Hill and Holme Moss -	57	26	31,75	32
			32	
Boulsworth Hill and Great Whernside -	95	57	49,75	50,25
			49,75	
			50,75	
Ledstone Beacon and Holme Moss -	72	16	30,5	31,75
			33	
Great Whernside and Holme Moss -	153	24	15,5	19,5
			18,75	
			22,5	

At Ledstone Beacon.

	°	′	″	Mean.
Rumbles Moor and Hemingbrough Spire	158	23	6,75	9
			7,5	
			9	
			12,75	
Rumbles Moor and York Minster -	103	17	40	41,75
			43,5	
Staincross Heights and Hemingbrough Spire	120	9	9,5	10,5
			9,75	
			10,5	
			12,25	
Hambleton Down and Hemingbrough Spire	84	34	0,75	
Holme Moss and Hemingbrough Spire	143	16	32,25	33,5
			35	
Hambleton Down and Black Hambleton	2	49	58,25	

At Black Hambleton.

Between	°	′	″	Mean.
Rumbles Moor and Great Whernside	31	38	35,75	36,75
			35,75	
			36,75	
			38,75	
Great Whernside and Water Crag -	32	56	48,25	51,75
			52,5	
			54	
Hambleton Down and Water Crag -	122	11	25,25	27,75
			30,25	
Hambleton Down and Botton Head -	118	53	1,75	
			3,25	
			3,75	
			4,75	
			4,75	
			5	

At Hambleton Down Station.

	°	′	″	Mean.
Ledstone Beacon and Brayton Spire -	16	43	17,5	21,25
			18,75	
			24,5	
			24,75	
Ledstone Beacon and Hemingbrough Spire	23	44	0,25	1,25
			2,25	
Hemingbrough Spire and Wilton Beacon	30	46	30,5	
Black Hambleton and Botton Head -	42	55	24,25	24,5
			24,75	
Botton Head and Wilton Beacon -	107	11	36,5	
Wilton Beacon and York Minster -	31	28	23,5	24,25
			25	
Rumbles Moor and York Minster -	62	11	40,25	41
			41,75	
Black Hambleton Down and Rumbles Moor	116	12	53,5	57,25
			56,75	
			61,75	

Between	°	′	″	Mean. ″
Ledstone Beacon and Rumbles Moor	39	9	26	28,5
			27,25	
			27,5	
			33,5	
Black Hambleton Down and Great Whernside	82	56	27,75	29,5
			31,5	
Black Hambleton Down and Wilton Beacon	150	7	0	2,5
			1	
			6,5	
Black Hambleton Down and Ledstone Beacon - - - -	155	22	23	24,5
			25,75	
At Brandon Down.				
Botton Head and Black Hambleton -	15	36	47	50
			53	
Botton Head and Wordeslow Hill -	77	58	42,75	43,75
			43,25	
			44,75	
Water Crag and Burleigh Moor -	102	17	33	33,75
			34,5	
Water Crag and Black Hambleton -	67	43	27,5	
Burleigh Moor and Wordeslow Hill -	59	1	30,75	31,5
			30,75	
			32	
			32,75	
Pontop Pike and Wordeslow Hill -	81	21	39,5	42,75
			43,25	
			45,25	
Collier Law and Wordeslow Hill -	141	40	29	31,5
			30,75	
			32,25	
			34,5	

Between	°	′	″	Mean.
Pontop Pike and Collier Law - -	60	18	49,25 51,25 52	51
Water Crag and Collier Law -	57	0	23 24,25 24,75 25,25	24,25
Black Hambleton and Botton Head -	15	36	47 53	50

At Heswell Hill.

	°	′	″	Mean.
Cyrn y Brain Mountain and Delamere Forest	74	28	39,25 39,5	39,5
Delamere Forest and Billinge Beacon -	61	10	54,5 54,75 56 57,75	55,75
Billinge Beacon and Go Hill - -	26	17	27,75 30,25 32,75	30,25
Cyrn y Brain Mountain and Everton Flagstaff - - - -	147	48	43,5 42,5 47,25	44,25
Delamere Forest and Everton Flagstaff	73	20	6 7,75	7
Ormskirk Spire and Everton Flagstaff -	12	14	11 17,75	14,5
Everton Flagstaff and the Landmark with a Vane near Formby - -	39	34	2,75 5,5 8,75	5,75

Between	°	′	″	Mean. ″
Everton Flagstaff and the Landmark without a Vane near Formby	34	46	43,5	44,5
			45,75	
At Belle-field Hill.				
Billinge Beacon and Heswell Hill	65	49	36,25	38,5
			36,5	
			40,25	
			41	
Billinge Beacon and Rivington Hill	35	44	0,25	1
			0,25	
			2,25	
Delamere Forest and Billinge Beacon	126	53	15,25	18,25
			19,25	
			17,75	
			20	
At Billinge Beacon.				
Cyrn y Brain Mountain and Delamere Forest	34	13	45,75	47,75
			46	
			51,25	
Belle-field Hill and Delamere Forest	24	5	14	16,25
			16	
			18,5	
Delamere Forest and Mow Copt	34	1	7	8,75
			7,5	
			9,5	
			9,5	
			10	
Rivington Hill and Knoll Hill	19	11	0	4
			1,5	
			1,75	
			2,75	
			5,25	
			6	
			6,25	

Between	°	'	"	Mean.
Delamere Forest and Rivington Hill -	132	2	19,5	
			20,5	" 21,5
			20,75	
			24,5	
Belle-field Hill and Rivington Hill -	107	57	1,5	
			1,75	2,75
			4,75	
Go Hill and Delamere Forest - -	119	41	22,5	
			23,5	
			24,5	25
			26,5	
			28	
Rivington Hill and Bleasdale Forest -	36	33	51,5	
			51,5	
			54,5	54,25
			56,75	
			57,5	
Go Hill and Rivington Hill - - -	108	16	13	
			15	15,25
			16,5	
			17,25	
Rivington Hill and the Landmark with a Vane near Formby - -	125	22	6,5	
			7	8
			9,5	
Rivington Hill and the Landmark without a Vane near Formby - -	125	28	5,5	
			9,75	7,75
			10	
Belle-field Hill and Everton Flagstaff -	89	18	48	48,5
			49,25	
Delamere Forest and Heswell Hill -	56	47	6	7,25
			8,5	

At Go Hill.

Between	°	′	″	Mean.
Billinge Beacon and Heswell Hill -	90	48	9,25	10,75
			11	
			12	
Billinge Beacon and Rivington Hill -	41	51	22	23,75
			24,25	
			24,75	
Billinge Beacon and Chorley Down -	51	3	27,75	30,25
			29,25	
			29,75	
			32	
			32,25	
Billinge Beacon and Bleasdale Forest -	90	14	43,75	44,75
			44,25	
			46,25	
Billinge Beacon and Beryl Hill - -	131	34	46,25	49,5
			50	
			50,5	
			50,5	

At Knoll Hill.

Wittle Hill and Billinge Beacon -	76	45	19,75	23,5
			24,5	
			26,5	
Wittle Hill and Rivington Hill - -	56	46	54,75	57,25
			56	
			58,25	
			60	

At Wittle Hill.

Billinge Beacon and Knoll Hill -	98	54	55,5	58,5
			58	
			57,75	
			58,75	
			62	

Between	°	′	″	Mean.
Billinge Beacon and Mow Copt -	62	46	17,5	19
			18,5	
			20,75	
Billinge Beacon and Bleasdale Forest -	80	23	5,5	7,5
			6,5	
			7	
			10,75	
Billinge Beacon and Chorley Down -	30	43	16,75	19
			18	
			20,25	
			21,25	
Billinge Beacon and Rivington Hill -	16	41	44	45
			45	
			45,5	
Pendle Beacon and Bleasdale Forest -	34	46	30	32
			31,5	
			34,5	
Pendle Beacon and Boulsworth Hill -	37	17	21,5	23
			21,5	
			22,5	
			26,75	
Boulsworth Hill and Holme Moss -	87	16	40,25	40,75
			40,5	
			41	
			42,75	
Axedge and Holme Moss - -	37	7	29,5	
Axedge and Mow Copt - -	20	22	26,75	
Billinge Beacon and St. Mary's Spire, Manchester - - - -	62	44	7,25	11
			14,75	
At Axedge.				
Weaver Hill and Mow Copt - -	67	17	54,5	56
			57,5	
			59,75	

een	°	′	″	Mean.
Mow Copt and Wittle Hill - -	103	0	32	
At Beryl Hill.				
Black Comb and Bleasdale Forest -	94	28	39,75	40,25
			40	
			41,25	
Go Hill and Ashurst Beacon - -	16	4	39,25	40
			40	
			40,5	
Go Hill and Bleasdale Forest - -	91	29	53	55,5
			58	
Go Hill and Billinge Beacon - -	14	24	28	30,75
			33,5	
At The Calf.				
Ingleborough Hill and Black Comb -	95	56	11,75	12,25
			12,25	
			12,25	
			12,5	
Black Comb and Helvellin Mountain -	41	19	32,25	33
			34	
Cross Fell and Helvellin Mountain -	63	59	19	16
			17	
			11,75	
Ingleborough Hill and Shunnor Fell -	72	31	15	16
			16,25	
			17	
Black Comb and Lower Top of Sca-Fell	23	49	59,75	
Cross Fell and Shunnor Fell - -	86	13	36	39,25
			39,25	
			42,75	
Penrith Beacon and Cross Fell - -	26	5	54,75	56
			55,25	
			57,75	

Between	°	′	″	Mean
Black Comb and Coniston Fell - -	18	22	35	
			36	37
			40	
Penrith Beacon and High Pike -	19	31	4,25	
			4,75	5,25
			7	
At Black Comb.				
Ingleborough Hill and Bleasdale Forest	30	5	29,75	
			36	
			36,5	35
			37,75	
Ingleborough Hill and The Calf - -	22	28	15	
			19,75	19
			19,75	
			21	
Ingleborough Hill and Helvellin Mountain	65	15	42,75	
			43,5	43,5
			44	
Ingleborough Hill and Coniston Fell -	52	11	24,5	
			24,5	26
			27,5	
			27,5	
Ingleborough Hill and Lower Top of Sca-Fell	81	25	35,5	
The Calf and Coniston Fell - -	29	43	4,75	
			5,5	
			6,5	7
			8,25	
			9	
North Berule and Snea Fell, in the Isle of Man	2	28	48,75	49
			49,25	
Bleasdale Forest and Bodafon Fire Beacon in Anglesea - - -	83	14	33,5	
Bleasdale Forest and the Top of the Rivel Mountain in Caernarvonshire - -	78	25	7,5	

At Scilly Bank.

Between	°	′	″	Mean.
Black Comb and Dent Hill - -	13	2	45	
			44	
			46	45,75
			46,5	
			47	
North Berule and Snea Fell - -	0	23	11	13
			15	
Dent Hill and Crif-Fell -	148	26	18,5	
			18,5	17
			14,75	

At Dent Hill.

Between	°	′	″	Mean.
Black Comb and Scilly Bank - -	163	27	31,25	
			33,25	33
			34,75	
Black Comb and Sca-Fell, highest top -	52	17	49	
			52	51
			53,25	
The two summits of Sca-Fell - -	3	3	48,5	
			49,75	49,25
			50,25	

At Wordeslow Hill.

Between	°	′	″	Mean.
Brandon Down and Pontop Pike	38	50	55,5	
			56,25	
			56	58
			57	
			61	
			61,25	
Brandon Down and Collier Law	19	6	42	42,25
			42,5	
Brandon Down and Hedgehope	91	29	18,5	
			20,5	20,75
			22	
			22	

Between	°	'	"	Mean.
Brandon Down and Flagstaff on Sheriff Hill	76	45	5 7	6
At Pontop Pike.				
Wordeslow Hill and Simonside Hill -	111	2	55,25 57,5 58,75 58,75	57,75
Wordeslow Hill and Brandon Down -	59	47	18 19 20 21,75	19,75
Collier Law and Brandon Down -	74	53	55,5	
Wordeslow Hill and Signal Staff on Marston Hill near Sunderland - - -	30	9	48 52	50
At Collier Law.				
Wordeslow Hill and Simonside Hill -	75	12	27 27,5 28,25 30	28
Pontop Pike and Brandon Down -	44	47	7,75 7,75 8,25 10,75 11,5 13	10
Wordeslow Hill and Pontop Pike -	25	34	17,25 19 20,75	19
Cross Fell and Kilhope Law - -	21	34	43 43,5 44 44,5 45,75	44

	°	′	″	Mean.
Cross Fell and Water Crag - -	64	2	0 0,25	0
Cross Fell and The Cheviot - -	95	1	9,75 10,75 13,5	11,25
Cross Fell and Simonside Hill -	103	33	19,75 24 24,5	22,75

At Water Crag.

	°	′	″	Mean.
Cross Fell and Collier Law - -	52	19	52,5 53 54,5 54,75	53,5
Black Hambleton and Great Whernside	62	22	45,5 47,5	46,5
Black Hambleton and Brandon Down	66	3	10,25 13	11,5
Collier Law and Helvellin Mountain -	93	3	8,5 10,5	9,5
Collier Law and Kilhope Law -	28	17	50 50,25 52,5	50,5
Cross Fell and Shunnor Fell - -	93	12	25,25 28,25	26,75
Shunnor Fell and Great Whernside -	61	1	26,5 28,5 30	28,5

At Cross Fell.

	°	′	″	Mean.
Water Crag and Helvellin Mountain -	99	59	21	22
Collier Law and The Cheviot - -	62	47	30,25 34,75	32,5

Between	°	'	"	Mean.
The Calf and High Pike -	87	59	9,25 11,5	10,5
The Calf and Helvellin Mountain -	57	48	21,25 27,5	24,5
Water Crag and Shunnor Fell -	15	35	33,75 36,75 37,75	36
Skiddaw and High Pike - -	8	3	8,5 9,75	9
The Cheviot and Wisp Hill - -	39	15	47,75 48,5 50	48,75
The Cheviot and Simonside Hill -	13	11	5,75 6 9,25	7
At High Pike.				
Cross Fell and Wisp Hill - -	85	1	54,5 56,25	55,5
Cross Fell and Crif-Fell - -	144	22	9,5 11,75	10,5
At Alnwick Moor.				
Rufflaw and Simonside Hill - -	40	34	53,25 53,75 55	54
The Cheviot and Rufflaw - -	106	58	54,5 55,75 56,5	56
At Rufflaw.				
Collier Law and Simonside Hill -	103	32	28 31,75	30
The Cheviot and Collier Law - -	124	36	49,5 50	49,75

Between	°	′	″	Mean.
Alnwick Moor and The Cheviot -	38	55	41,25	42
			41,25	
			42,75	
			42,75	
Alnwick Moor and Simonside Hill -	60	0	5	5,5
			5,5	
			6,25	
Collier Law and Pontop Pike - -	14	52	49,5	51,5
			53,5	
At Crif-Fell.				
Scilly Bank and Skiddaw -	38	11	47,75	48
			48,25	
Cross Fell and Wisp Hill - -	61	49	33,75	36
			37	
			37,25	
Wisp Hill and Queensberry Hill	44	6	37	39,75
			39	
			43	
Cross Fell and Helvellin Mountain -	29	52	15	19
			20,5	
			21,75	
Skiddaw and Dent Hill - -	33	24	18,5	
Skiddaw and High Pike - -	10	37	34,25	35
			35,5	
Cross Fell and Skiddaw - -	26	36	10,25	11,25
			11,25	
			12	
At Wisp Hill.				
The Cheviot and Cross Fell -	87	14	7	9
			10,75	
The Cheviot and Sayrs Law - -	50	36	13,25	16
			16,25	
			18,75	

Between	°	′	″	Mean.
The Dunrigs and Sayrs Law - -	39	42	50,5	
			50,5	52,5
			53,5	
			56	
The Cheviot and Crif-Fell - -	160	55	36,75	
			38,75	38,75
			40,75	
Crif-Fell and Queensberry Hill -	41	42	31,25	
			34,5	33,75
			35,5	
At Sayrs Law.				
Wisp Hill and The Cheviot - -	55	50	17,25	
			17,25	18,25
			18,5	
			20	
Wisp Hill and The Dunrigs - -	30	1	38	
			39,25	39,5
			40	
			41,25.	
The Cheviot and East Lomond Hill -	178	40	19,25	
			20,5	
			21,75	22,25
			22	
			27,25	
The Cheviot and Mordington Hill -	44	34	25,75	
			27	27,25
			28,75	
Lighthouse on the Isle of May and Lighthouse on Inch Keith - -	64	55	17,25	19,5
			21,5	
Lighthouse on the Isle of May and Lighthouse on Leith Pier - -	75	4	33,5	
Lighthouse on the Isle of May and Kirk Gate Spire, Leith - -	76	25	21	

At Lumsdane Hill.

Between	°	′	″	Mean. ″
Sayrs Law and Blackheddon	107	25	26,25	
			28,25	
			29,75	29,5
			30	
			33,5	
Sayrs Law and East Lomond Hill	43	48	40	
			42,25	42
			43,75	
Largo Law and Sayrs Law -	52	11	52,5	
			53,75	
			55	55,5
			57,75	
			58,75	
Sayrs Law and West Lomond Hill	42	18	9,5	
			10	11,5
			15,25	
The Cheviot and Blackheddon	25	40	40	
			45,75	44
			46,5	

At Mordington Hill.

The Cheviot and Sayrs Law - -	89	34	0,25	
			3,75	2,75
			4,25	
The Cheviot and Blackheddon	32	42	59	
			59,5	
			58,5	
			60	60,25
			60,5	
			60,75	
			63,5	
Blackheddon and Sayrs Law -	122	17	2	
			3,5	3
			3,75	

At Blackheddon.

Between	°	′	″	Mean.
Lumsdane Hill and The Cheviot -	112	24	35	
			35,5	
			37	37,25
			38	
			41	
Mordington Hill and The Cheviot -	117	9	53	
			59	58,25
			62,5	
The Cheviot and Sayrs Law - -	79	15	28,5	
			28,5	29
			30	
The Cheviot and Simonside Hill -	34	20	49	
			51,5	53
			55	
			55,75	

ART. II. *Angles of Elevation or Depression of the several Stations in the preceding Article; also the Angles of Elevation of several remarkable Hills or Mountains, observed in the Trigonometrical Survey of* 1800, 1801, 1803, 1804, 1805, 1806, 1807, 1808, *and* 1809.

At Holland Hill.

The ground at		°	′
Stathern Point - -	*depr.*	5	15
Sutton Ashfield Station -	*elev.*	7	12
Orpit Heights - -	*elev.*	12	0
Bardon Hill - -	*elev.*	2	35

At Orpit Heights.

Hathersage - - - -	*elev.*	6	18
Sutton Ashfield Station -	*depr.*	24	0
Holland Hill - -	*depr.*	24	50
Weaver Hill - -	*elev.*	3	22
Bardon Hill - -	*depr.*	13	40
Castle Ring - -	*depr.*	22	15

At Castle Ring.

The ground at		°	′
Axedge - -	*elev.*	5	54
Brayding Hill, N. Wales -	*depr.*	11	50
The Wrekin - -	*elev.*	3	12
Weaver Hill - -	*elev.*	4	5
Orpit Heights -	*depr.*	5	30
Bar Beacon - -	*depr.*	7	48
Red Clay Hill - -	*elev.*	7	9
Bardon Hill - -	*depr.*	6	48

At Lilleyboe.

Tharfield - -	*depr.*	6	19
Kinsworth - -	*elev.*	9	50

		'	"
The ground at			
Bowbrickhill	*depr.*	7	45
Lidlington	*depr.*	16	0

At Royston.

		'	"
Lilleyhoe	*elev.*	1	39
Lidlington	*depr.*	7	57
Tharfield	*elev.*	56	33
Orwell	*depr.*	18	27
Maddingly	*depr.*	17	33
Top of Ely Minster Steeple	*depr.*	14	24
Top of King's College Chapel	*depr.*	17	45
Top of the Vane in the midst of the Trees on Gog Magog Hills	*depr.*	11	42

At Orwell.

		'	"
Top of Tharfield Church Tower	*elev.*	17	41
Royston	*elev.*	10	18
Balsham Church Tower	*elev.*	3	15
Balsham Station	[illegible]	0	0
Maddingly Station	*depr.*	10	18
Lilleyhoe	*elev.*	3	6

At Maddingly.

		'	"
Tharfield	*elev.*	11	2
Orwell	*elev.*	4	31
Balsham	*elev.*	5	18
Haddenham	*depr.*	20	25

At Balsham.

		'	"
Tharfield	*depr.*	5	12
Newmarket Station	*depr.*	6	51

At Brandon.

		'	"
Methwold	*depr.*	8	30
Little Port	*depr.*	10	36
Ely Minster Steeple, Top of	*depr.*	0	57
Newmarket	*depr.*	0	24
Bartenham	*depr.*	0	11
Thetford	*depr.*	2	37
Oxborough	*depr.*	4	30

At Clifton Beacon.

		'	"
The ground at			
Hathersage	*elev.*	29	12
Bradfield Point	*elev.*	28	10
Staincross Heights	*depr.*	1	45
Gringley Beacon	*depr.*	13	40
North end of the Base } Misterton Carr.	*depr*	32	57
South end of ditto } Misterton Carr.	*depr.*	28	51

At Hathersage.

		'	"
Orpit Heights	*depr.*	20	27
Ravage Top	*depr.*	11	1
Lord's Seat	*elev.*	23	45
Black-kilder Hill	*elev.*	33	9
Pit Hill	*elev.*	23	51
Bradfield Point	*depr.*	14	12
Staincross Heights	*depr.*	38	7

At Lord's Seat.

		'	"
Weaver Hill	*depr.*	26	27
Ravage Top	*depr.*	28	29
Axedge	*depr.*	5	26
Pit Hill	*depr.*	4	32
Hathersage	*depr.*	29	48
Black-kilder Hill	*elev.*	56	30

At Weaver Hill.

		'	"
The Wrekin	*depr.*	11	24
Castle Ring	*depr.*	20	8
Bardon Hill	*depr.*	17	26
Orpit Heights	*depr.*	13	21
Barren-Edge	*elev.*	2	14
Pit Hill	*elev.*	0	30
Black-kilder Hill	*elev.*	12	51
Axedge	*elev.*	18	56
Mow Copt	*depr.*	10	51
Ashley Heath	*depr.*	21	15
Lord's Seat	*elev.*	7	45

At Cleeve.

		'	"
Malvern Hills, highest point	*elev.*	3	17
Breadon Hill	*depr.*	11	0
Broadway Beacon	*depr.*	7	30
Stow on the Wold	*depr.*	19	28

The ground at May Hill	*depr.*	11	15

At Malvern Station.

Cradle Mountain, Wales	*elev.*	5	30
Brown Clay Hill	*depr.*	0	20
Broadway Beacon	*depr.*	18	36
Breadon Hill (Building)	*depr.*	26	45
Cleeve Hill	*depr.*	17	20
May Hill	*depr.*	23	30

At May Hill.

Malvern Station	*elev.*	11	12
Breadon Hill (Building)	*depr.*	7	38
Broadway Beacon	*depr.*	8	56
Cleeve Hill	*depr.*	3	57
Symmond's Hall	*depr.*	12	15
Trelleg Beacon	*depr.*	4	6

At Trelleg Beacon.

Mynydd Mane	*elev.*	14	45
Cradle Mountain	*elev.*	37	6
Symmond's Hall	*depr.*	17	25
May Hill	*depr.*	8	2

At Mynydd Mane.

Capellante	*elev.*	16	3
Beacon of Brecknock	*elev.*	32	39
Cradle Mountain	*elev.*	28	0
Trelleg Beacon	*depr.*	26	51
Tymbarlum Mountain	*depr.*	35	54
Garth Hill	*depr.*	32	0
Llangeinor Mountain	*elev.*	1	56
Dundry Beacon	*depr.*	29	3

At Garth Hill.

Capellante	*elev.*	29	18
Beacons of Brecknock	*elev.*	41	39
Cradle Mountain	*elev.*	24	18
Mynydd Mane	*elev.*	21	27
Dunkery Beacon	*elev.*	5	4
Ogmoor Down	*depr.*	35	39
Llangeinor Mountain	*elev.*	35	35

At Ogmoor Down.

The ground at Llangeinor Mountain	*elev.*	51	9
Garth Hill	*elev*	26	9
Dunkery Beacon	*elev.*	33	45
Cefn Bryn	*depr.*	1	51

At Llangeinor Mountain.

Margam Down	*depr.*	34	24
Trecastle Beacon	*elev.*	20	3
Cradle Mountain	*elev.*	5	30
Pen y Voel	*depr.*	8	57
Mynydd Mane	*depr.*	17	54
Garth Hill	*depr.*	46	57
Capellante	*elev.*	15	41
Dunkery Beacon	*depr.*	15	55
Beacons of Brecknock	*elev.*	31	0

At Margam Down.

Lannon	*depr.*	14	45
Llangeinor Mountain	*elev.*	1° 7	21
O[illegible]own	*depr.*	59	24
Dunkery Beacon	*elev.*	1	48

At Cefn Bryn.

Lannon	*elev.*	13	4
Trecastle Beacon	*elev.*	36	55
Llangeinor Mountain	*elev.*	25	6
Margam Down	*elev.*	11	9
Precelly Top	*elev.*	6	12
Dunkery Beacon	*elev.*	5	9
Marros Beacon	*depr.*	12	19
Hangman Hill	*elev.*	1	2
Brenin Vour		0	0
Ogmoor Down	*depr.*	16	48

At Marros Beacon.

Cefn Bryn	*depr.*	6	19
Lannon	*elev.*	6	36
Precelly Top	*elev.*	44	15

At Lannon.

Cefn Bryn	*depr.*	19	45
Marros Beacon	*depr.*	19	45

The ground at

		′	″
Precelly Top	*elev.*	9	16
Brenin Vour	*depr.*	0	54
New Inn Hill Station	*elev.*	3	10
Trecastle Beacon	*elev.*	44	0
Llangeinor Mountain	*elev.*	13	4
Margam Down	*depr.*	3	25
Beacons of Brecknock	*elev.*	27	43

At Precelly Top.

Beacons of Brecknock	*depr.*	9	20
Trecastle Beacon	*depr*	5	15
Lannon	*depr.*	29	30
Brenin Vour	*depr.*	45	39

At Plumstone Down.

St. David's Head	*depr.*	3	43
Pencar Rock near Fishguard	*elev.*	3	33
Cwm Kerrwn Mountain	*elev.*	50	30
Precelly Top	*elev.*	55	33
St. Ann's Hill	*depr.*	21	12

At St. Ann's Hill.

Top of Milford Church Steeple	*depr.*	10	24
Summit of Sir H. Owen's Gazebo	*elev.*	2	28
Top of Warren Church Spire	*elev.*	2	30
Cupola of St. Ann's Lighthouse	*depr*	28	14
Highest Part of Ramsey Isle	*depr.*	1	27
Plumstone Down	*elev.*	11	51
Precelly Top	*elev.*	1° 1	33

At Newton Down.

St. Ann's Head	*depr.*	9	39
Plumstone Down	*elev.*	11	48
St. David's Head	*elev.*	1	48
Precelly Top	*elev.*	53	16
Marros Beacon	*elev.*	4	3
Highgate Mountain	*depr.*	5	55

At New Inn Hill.

Lannon	*depr.*	15	56
Precelly Top	*elev.*	6	53
Brenin Vour	*depr.*	1	29
Capel Kynon	*depr.*	12	23

The ground at

		′	″
Talsarn Hill	*depr.*	8	30
Beacons of Brecknock	*elev.*	22	8

At Talsarn Hill.

Tregarron Down	*elev.*	28	11
Llandowi Mountain	*elev.*	22	57
Trecastle Beacon	*elev.*	20	58
New Inn Hill	*depr.*	5	8
Brenin Vour	*depr.*	5	50
Precelly Top	*elev.*	0	10
Capel Kynon	*depr*	10	44
Tregarron Down	*elev.*	28	15
Plynlimmon	*elev.*	29	15
Aberystwith Station	*depr*	33	41
Cader Idris	*elev.*	21	6

At Capel Kynon.

New Inn Hill	*elev.*	2	50
Brenin Vour	*elev.*	5	57
Precelly Top	*elev.*	14	13
Tregarron Down	*elev.*	7	27
Plynlimmon	*elev.*	12	38

At Tregarron Down.

Plynlimmon	*elev.*	20	18
Dwggan Mountain	*elev.*	23	36
Beacons of Brecknock	*elev.*	12	25
Trecastle Beacon	*elev.*	12	30
Talsarn Hill	*depr.*	39	27
Aberystwith Station	*depr.*	57	27
Snowdon	*depr.*	2	21
Cader Idris	*elev.*	9	13
Plynlimmon	*elev.*	20	30
Llandowi Mountain	*depr.*	20	44
Barrow near New Inn	*depr.*	22	41
Talsarn Hill	*depr.*	38	0
Capellante	*elev.*	2	36
Precelly Top	*depr.*	17	15
Cradle Mountain	*elev.*	2	18
Llandinam Mountain	*depr.*	4	40

At Aberystwith Station.

Brigny Hill	*elev.*	27	27

The ground at		°	′	″
Plynlimmon	*elev.*	1	38	50
Cader Idris	*elev.*	1	12	25
Pengarn	*elev.*		32	7
Snowdon	*elev.*		28	52
Rhiw Mountain	*depr.*		3	42
Tregarron Down	*elev.*		41	58
Talsarn Hill	*elev.*		21	58

At Llandinam Mountain.

Dwggan Mountain		0	0
Tregarron Down	*depr.*	13	6
Plynlimmon	*elev.*	19	22
Arran Fowddy	*elev.*	15	9
Long Mountain	*depr.*	26	1
Stow Hill	*depr.*	24	7
Radnor Forest	*elev.*	5	3
Cradle Mountain	*elev.*	2	22
Beacon of Brecknock	*elev.*	3	27
Capellante Mountain	*depr.*	6	21
Cader Idris	*elev.*	14	21
Brown Clay Hill	*depr.*	14	21

At Stow Hill.

Radnor Forest	*elev.*	42	6
The Beacon of Brecknock	*elev.*	11	0
Llandinam Mountain	*elev.*	9	33
Long Mount Pole	*elev.*	7	11
Malvern Station	*depr.*	13	57
The Wrekin	*depr.*	12	30
Brown Clay Hill	*elev.*	5	32
Long Mountain	*depr.*	10	0
Cradle Mountain	*elev.*	16	19

At Radnor Forest.

Cradle Mountain	*elev.*	4	0
Trecastle Beacon	*depr.*	5	41
Beacon of Brecknock	*elev.*	4	15
Capellante Mountain	*depr.*	8	20
Dwggan Mountain	*depr.*	12	0
Malvern Station	*depr.*	27	45
Llandinam Mountain	*depr.*	17	15

At Symmond's Hall.

The ground at		′	″
Malvern Station	*elev.*	0	56
St. Ann's Hill	*depr.*	6	48
May Hill	*depr.*	0	49
Trelleg Beacon	*depr.*	0	9

At Rhiw Mountain.

Rivel Mountain	*elev*	38	33
Bwlch Mawr	*elev.*	19	9
Snowdon	*elev.*	48	4
Ynaliog Mountain	*depr.*	50	18
Holyhead Mountain	*depr.*	18	0
Llwydiart Mountain	*depr.*	22	32

At Llwydiart Mountain.

Llanelian Mountain	*elev.*		0	26
Great Orme's Head	*elev.*		1	56
Penmaen Mawr	*elev.*	1°	2	21
Carnedd Llewellyn	*elev.*	2	29	21
Carnedd David	*elev.*	2	28	29
Snowdon	*elev.*	1	59	45
Gerwyn Goch	*elev.*		27	44
Rivel Mountain	*elev.*		27	44
Holyhead Mountain	*depr.*		1	39
Moel Rhyddlad	*depr.*		9	18
Ynaliog Mountain	*depr.*		13	22
Rhiw Mountain	*depr.*		5	29
Bwlch Mawr	*elev.*		28	15

At Llanelian Mountain in Anglesea.

Snowdon	*elev.*	1°	8	59
Carnedd David	*elev.*	1	18	10
Carnedd Llewellyn	*elev.*	1	19	44
Penmaen Mawr	*elev.*		29	9
Llanelian Mountain	*elev.*		3	6
Bwlch Mawr	*elev.*		15	23
Gerwyn Goch	*elev.*		15	23
Rivel Mountain	*elev.*		16	21
Great Orme's Head	*depr.*		5	12
Llwydiart Mountain	*depr.*		8	30
Holyhead Mountain	*depr.*		1	24
Moel Rhyddlad	*depr.*		11	57
A Mountain in Cumberland	*depr.*		10	33

The ground at		′	″
A sharp-pointed Mountain near the last	depr.	13	6
Southwest Mountain in the Isle of Man	depr.	8	47
Northeast Mountain in the Isle of Man	depr.	7	33

At Moel Rhyddlad.

Llanelian Mountain	elev.	2	26
Bodafon Beacon	elev.	2	5
Carnedd Llewellyn	elev.	58	34
Carnedd David	elev.	58	40
Snowdon	elev.	58	10
Bwlch Mawr	elev.	18	23
Gerwyn Goch	elev.	19	20
Rivel Mountain	elev.	21	15
Hill near Nevin	elev.	1	55
Holyhead Mountain	elev.	20	51
Penmaen Mawr	elev.	16	55
Great Orme's Head	depr.	6	0
Llwydiart Mountain	depr.	4	24
Rhiw Mountain	depr.	5	11
Ynaliog Mountain	depr.	12	36

At Plynlimmon.

Cader Idris	elev.	11	0
Arrennig	depr.	5	5
Radnor Forest	depr.	14	57
Llandinam Mountain	depr.	30	15
Tregarron Down	depr.	34	9
Rodney's Pillar	depr.	37	3
Aberystwith Station	depr. 1°	47	55
Berwin Mountain	depr.	7	30
Ynaliog Mountain	depr.	42	30
Rhiw Mountain	depr.	38	57
Rivel Mountain	depr.	25	45
Arran Fowddy	elev.	5	51

At Long Mountain.

Radnor Forest	elev.	10	3
Llandinam Mountain	elev.	9	12
Arran Fowddy	elev.	29	1
Arrennig	elev.	16	3

The ground at		′	″
Berwin Mountain	elev.	36	48
Cader Ferwyn	elev.	29	28
Cyrn Moelfre	elev.	10	7
Cader Idris	elev.	16	37
Stow Hill	depr.	4	56
Rodney's Pillar	depr.	18	15
Ashley Heath	depr.	23	18
The Wrekin	depr.	8	27
Cyrn-y Brain Mountain	elev.	1	42

At Brown Clay Hill.

Bar Beacon	depr.	34	10
Malvern Station	depr.	20	12
Waltham Hill	depr.	30	54
The Wrekin	depr	27	29
Long Mount Pole	depr.	10	9
Stow Hill	depr.	20	30
Rodney's Pillar	depr.	23	53
Ashley Heath	depr.	32	21

At Ashley Heath.

Highest Part of Beeston Castle	depr.	15	21
Delamere Forest	depr	14	41
Mow Copt	elev.	7	48
The Wrekin	elev.	11	46
Long Mount Pole	elev.	5	27
Long Mountain	depr.	2	54
Rodney's Pillar	depr.	2	54
Highest Point of Hawkeston Obelisk	depr.	3	51
Brown Clay Hill	elev.	8	15
Cyrn y Brain Mountain	elev.	7	24
Weaver Hill	elev.	4	9

At Cyrn y Brain Mountain.

Arran Fowddy	elev.	16	4
Arrennig	elev.	15	21
Carnedd David	elev.	16	27
Carnedd Llewellyn	elev.	18	44
Cader Ferwyn	elev.	32	46
Snowdon	elev.	15	33
Delamere Forest	depr.	43	12
Ashley Heath	depr.	33	0

The ground at

			'
Rodney's Pillar	*depr.*	27	12
Long Mountain	*depr.*	22	24
Long Mount Pole	*depr.*	16	28
The Wrekin	*depr.*	22	54
Moel Fammau	*depr.*	4	23
Llanelian Mountain	*depr.*	27	39

At Llanelian Mountain in Denbighshire.

Arrennig	*elev.*	58	12
Cader Ferwyn	*elev.*	22	33
Cyrn y Brain Mountain	*elev.*	7	3
Moel Fammau	*elev.*	14	30
Llanelian Mountain	*depr.*	22	59
Garreg Mountain	*depr.*	17	35
Billinge Beacon	*depr.*	24	15
Great Orme's Head	*depr.*	40	57

At Garreg Mountain.

Snowdon	*elev.*	36 58
Denbighshire, Llanelian Mountain	*elev.*	3
Anglesea, Llanelian Mountain	*depr.*	18
Great Orme's Head	*depr.*	12
Arrennig	*elev.*	28
Arran Fowddy	*elev.*	25
Cyrn y Brain Mountain	*elev.*	29
Delamere Forest	*depr.*	14
Moel Fammau	*elev.*	1° 3

At West End of Base.

Moelfre Issa	*elev.*	3° 16
Cave Hill	*elev.*	3 27
Great Orme's Head	*elev.*	32
Gwaunysgaer Down	*elev.*	51
Top of Staff at East End of Base	*depr.*	0

At East End of Base.

Moel Morwith	*elev.*	45
Moel Fammau	*elev.*	1° 26
Moelfre Issa	*elev.*	2 9
Great Orme's Head	*elev.*	12
Gwaunysgaer Down	*elev.*	46
Top of Staff at West End of Base	*depr.*	0

At Moelfre Issa.

The ground at

			'	"
Moel Fammau	*elev.*		30	15
Llanelian Mountain	*elev.*		15	15
Cyrn y Brain Mountain	*elev.*		16	21
Top of Staff at West End of Base	*depr.*	3°	41	54
Top of Staff at East End of Base	*depr.*	2	46	2
Gwaunysgaer Down	*depr.*		24	6

At Gwaunysgaer Down.

Moel Fammau	*elev.*	51	12
Moelfre Issa	*elev.*	20	4

At Burleigh Moor.

Barnaby Moor	*elev.*	41	35
Roseberry Top	*elev.*	59	16
Wordeslow Hill	*depr.*	6	51
Easington Heights	*elev.*	7	12
Danby Beacon	*elev.*	23	36
Brandon Mount	*depr.*	2	47

At Easington Heights.

Fair Head	*elev.*	10	27
Danby Beacon	*elev.*	26	15
Blackhill Stone	*elev.*	34	9
Botton Head	*elev.*	30	6
Barrow on Gisbro' Hill	*elev.*	25	30
Barnaby Moor	*elev.*	1	27
Stow Brow	*depr.*	1	28

At Botton Head.

Barnaby Moor	*depr.*	47	30
Westerdale	*depr.*	19	40
Loosehoe	*depr.*	10	31
Hambleton Down	*depr.*	26	45
Easington Heights	*depr.*	40	50

At Loosehoe.

Botton Head	*elev.*	3	15
Westerdale	*depr.*	1	9
Roseberry Top	*depr.*	27	48
Easington Heights	*depr.*	44	15

The ground at		′	″
Fair Head - -	*depr.*	33	54
Stow Brow - -	*depr.*	27	54
Wilton Beacon -	*depr.*	23	30
Hambleton Down - -	*depr.*	21	47

At Wilton Beacon.

Kirby Underdale - -		0	0
Botton Head - -	*elev.*	2	53
Loosehoe - -	*elev.*	3	30
Hambleton Down - -	*depr.*	3	37
Hunsley Beacon -	*depr.*	17	29

At Heswell Hill.

Cyrn y Brain Mountain -	*elev.*	38	28
Go Hill Station - -	*depr.*	10	57
Billinge Beacon -	*depr.*	6	38
Belle-field Hill - -	*depr.*	9	11
Delamere Forest -	*depr.*	1	52

At Belle-field Hill.

Cyrn y Brain Mountain -	*elev.*	17	1
Delamere Forest - -	*elev.*	10	21
Mow Copt - -	*elev.*	13	29
Billinge Beacon -	*depr.*	20	50
Heswell Hill - -	*depr.*	7	48
Rivington Hill -	*elev.*	32	5
Knoll Hill - -	*elev.*	9	37

At Billinge Beacon.

Rivington Hill - -	*elev.*	45	7
Chorley Down - -	*elev.*	27	15
Delamere Forest - -	*depr.*	8	45
Knoll Hill - -	*elev.*	15	3
Cyrn y Brain Mountain -	*elev.*	7	22
Belle-field Hill - -	*depr.*	15	37
Heswell Hill - -	*depr.*	15	16
Garreg Mountain - -	*depr.*	5	36
Go Hill Station -	*depr.*	28	9
Beryl Hill - -	*depr.*	23	7

At Go Hill.

Bleasdale Forest -	*elev.*	19	24
Chorley Down - -	*elev.*	31	36

The ground at		′	″
Rivington Hill -	*elev.*	41	21
Billinge Beacon - -	*elev.*	20	21
Heswell Hill - -	*depr.*	2	28
Beryl Hill - -	*depr.*	11	52
Pendle Hill - -	*elev.*	18	57

At Wittle Hill.

Knoll Hill -	*depr.* 1°	4	27
Holme Moss - -	*elev.*	5	1
Boulsworth Hill - -	*elev.*	2	51
Pendle Hill - -	*elev.*	7	33
Ingleborough - -	*elev.*	1	39
Bleasdale Forest - -	*depr.*	1	39
Chorley Down - -	*depr.*	21	36
Rivington Hill - -	*depr.*	7	12
Billinge Beacon - -	*depr.*	37	28
Mow Copt - -	*depr.*	22	42
Axedge - -	*depr.*	7	48

At Axedge.

Rivington Hill - -	*depr.*	19	7
Wittle Hill - -	*depr.*	17	31
Holme Moss - -	*depr.*	4	40
Lord's Seat Station - -	*depr.*	3	53
Hathersage - -	*depr.*	19	48
Weaver Hill - -	*depr.*	30	23
Mow Copt - -	*depr.*	39	41

At Staineross Heights.

Bradfield Point -	*elev.*	39	48
Holme Moss - -	*elev.*	49	52
Ledstone Beacon - -	*depr.*	17	20
Clifton Beacon - -	*depr.*	10	3
Hathersage - -	*elev.*	24	54
Rumbles Moor -	*elev.*	6	4

At Boulsworth Hill.

Ingleborough - -	*elev.*	5	35
Cam Fell - -	*elev.*	3	59
Great Whernside - -	*elev.*	6	32
Rumbles Moor -	*depr.*	24	42
Holme Moss - -	*elev.*	5	18
Wittle Hill - -	*depr.*	24	42

The ground at

		′	″
Rivington Hill	*depr.*	14	40
Bleasdale Forest	*depr.*	9	3
Pendle Hill	*elev.*	6	12

At Ingleborough Hill.

Coniston Fell	*depr.*	8	11
Black Comb	*depr.*	22	24
Helvellin Mountain	*depr.*	0	53
The Calf	*depr.*	19	50
Whernside in Ingleton Fells	*elev.*	2	21
Shunnor Fell	*depr.*	8	15
Great Whernside	*depr.*	9	35
Pennigant	*depr.*	13	0
Pendle Hill	*depr.*	25	20
Bleasdale Forest	*depr.*	31	4
Boulsworth Hill	*depr.*	27	26

At Rumbles Moor.

Black Hambleton	*depr.*	15	44
Hambleton Down	*depr.*	17	15
Ledstone Beacon	*depr.*	38	41
Bradfield Point	*depr.*	13	8
Holme Moss	*elev.*	5	2
Boulsworth Hill	*elev.*	13	12
Pendle Hill	*elev.*	9	5
Cam Fell	*elev.*	18	39
Great Whernside	*elev.*	25	34
Pennigant	*elev.*	15	24

At Ledstone Beacon.

Hambleton Down	*elev.*	2	50
Wilton Beacon	*elev.*	0	3
Rumbles Moor	*elev.*	20	36
Staincross Heights	*elev.*	3	18

At Black Hambleton.

Collier Law	*depr.*	9	24
Great Whernside	*elev.*	9	30
Water Crag	*elev.*	3	26
Cross Fell	*elev.*	0	15
Rumbles Moor	*depr.*	13	12
Ledstone Beacon	*depr.*	30	42
Hambleton Down	*depr.*	28	24

The ground at

Wilton Beacon	*depr.*	22	2
Botton Head	*elev.*	12	45

At Hambleton Down.

Wilton Beacon	*depr.*	17	5
Botton Head	*elev.*	17	6
A Hill near Stokesley	*elev.*	14	12
Black Hambleton	*elev.*	22	15
Water Crag	*elev.*	2	18
Rumbles Moor	*depr.*	8	44
Ledstone Beacon	*depr.*	28	12
Great Whernside	*elev.*	12	0

At Brandon Down.

Collier Law	*elev.*	38	45
Pontop Pike	*elev.*	6	51
Hambleton Down	*depr.*	7	59
A Hill near Stokesley	*depr.*	0	15
Botton Head	*depr.*	1	14
Burleigh Moor	*depr.*	17	30
Easington Heights	*depr.*	17	3
Wordeslow Hill	*depr.*	18	0
Sherf Hill	*depr.*	21	38
Water Crag	*elev.*	19	18

At Wordeslow Hill.

Botton Head	*elev.*	3	6
Water Crag	*elev.*	10	2
Brandon Down	*elev.*	8	2
Collier Law	*elev.*	17	55
Pontop Pike	*elev.*	12	22
Simonside Hill	*depr.*	0	50
The Cheviot	*elev.*	5	24
Hedgehope	*elev.*	2	58
Marston Hill	*depr.*	32	14

At Pontop Pike.

Simonside Hill	*depr.*	2	48
Rufflaw	*depr.*	20	43
Wordeslow Hill	*depr.*	23	58
Brandon Down	*depr.*	14	56
Collier Law	*elev.*	35	21
Kilhope Law	*elev.*	28	6

At Collier Law.

The ground at		′	″
Cross Fell	*elev.*	30	5
Kilhope Law	*elev.*	21	43
Water Crag	*elev.*	4	17
Brandon Down	*depr.*	48	42
Pontop Pike	*depr.*	44	36
Simonside Hill	*depr.*	18	1
Hedgehope	*depr.*	9	5
Wordeslow Hill	*depr.*	38	42

At Water Crag.

Skiddaw	*depr.*	5	54
Saddleback	*depr.*	5	50
Penrith Beacon	*depr.*	39	21
Kilhope Law	*depr.*	10	6
Collier Law	*depr.*	23	9
Brandon Down	*depr.*	41	3
Black Hambleton	*depr.*	31	42
Great Whernside	*depr.*	4	57
Whernside in Ingleton Fells	*depr.*	0	38
Shunnor Fell	*elev.*	11	6
Nine Standards	*depr.*	8	18
Cross Fell	*elev.*	10	46

At Cross Fell.

Helvellin Mountain	*depr.*	5	2
Skiddaw	*depr.*	7	43
The Calf	*depr.*	28	30
The Cheviot	*depr.*	23	44
Wisp Hill	*depr.*	30	48
Hedgehope	*depr.*	27	0
Simonside Hill	*depr.*	38	9
Collier Law	*depr.*	46	35
Water Crag	*depr.*	28	36
Great Whernside	*depr.*	24	43
Shunnor Fell	*depr.*	23	59
Crif-Fell	*depr.*	33	6
Bow Fell	*depr.*	11	51
High Pike	*depr.*	31	39
Saddleback	*depr.*	12	9
Grisdale Pike	*depr.*	19	54
Cold Fell	*depr.*	47	27
Daffenside Beacon	*depr.*	1° 4	31

At Beryl Hill.

The ground at		′	″
Black Comb	*elev.*	26	28
Bleasdale Forest	*elev.*	49	0
Go Hill	*elev.*	4	25
Billinge Beacon	*elev.*	0	7

At The Calf.

Black Comb	*depr.*	17	43
Coniston Fell	*elev.*	1	19
Helvellin Mountain	*elev.*	16	0
High Pike	*depr.*	13	8
Penrith Beacon	*depr.*	45	8
Cross Fell	*elev.*	10	31
Shunnor Fell	*elev.*	2	31
Whernside in Ingleton Fells	*elev.*	7	11
Ingleborough	*elev.*	0	34
Pennigant	*depr.*	5	6
Sca-Fell, lower Top	*elev.*	9	48
Sca-Fell, highest Top	*elev.*	11	30
Saddleback	*elev.*	3	4

At Black Comb.

Coniston Fell	*elev.*	33	13
Helvellin Mountain	*elev.*	24	26
Sca-Fell, lower Top	*elev.*	48	58
Sca Fell, highest Top	*elev.*	50	40
The Pillar	*elev.*	31	15
Bleasdale Forest	*depr.*	19	2
Ingleborough	*depr.*	7	25
The Calf	*depr.*	7	43
Bow Fell	*elev.*	38	23
Kirk Fell	*elev.*	20	31
Snea Fell	*depr.*	16	0
North Berule	*depr.*	17	27
Lower Cairns Moor	*depr.*	20	5
Bengarn	*depr.*	27	3
Crif-Fell	*depr.*	19	15
Scilly Bank	*depr.*	49	14

At Scilly Bank.

North Berule	*elev.*	7	9
Snea Fell	*elev.*	7	45
Crit-Fell	*elev.*	22	21

The ground at		°	'	"
Grasmere Fell	*elev.*	2°	3	27
Skiddaw	*elev.*	1	24	15
Black Comb	*elev.*		31	31
Bengarn	*elev.*		8	0

At Dent Hill.

Sca-Fell, highest Top	*elev.*	1°	50	36
Sca-Fell, lower Top	*elev.*	1	51	10
Black Comb	*elev.*		21	45
Red Pike	*elev.*	1°	56	25
Blake Fell	*elev.*	1	15	42
Crif-Fell	*elev.*		2	54
Bengarn	*depr.*		9	15
Scilly Bank	*depr.*	1°	24	3
North Berule	*depr.*		3	30
Snea Fell	*depr.*		3	0
Grisdale Pike	*elev.*	1°	18	54
Grasmere Fell	*elev.*	1	46	53
Skiddaw	*elev.*	1	6	1
The Pillar	*elev.*	2	16	0

At Crif-Fell.

Snea Fell	*depr.*	19	30
North Berule	*depr.*	20	20
Skiddaw	*elev.*	17	5
High Pike	*depr.*	3	30
Whin Fell	*depr.*	3	52
Queensberry Hill	*elev.*	2	39
The Lowthers Station	*depr.*	0	36
Cairnsmoor near Carsphairn	*elev.*	3	0
Lower Cairnsmoor Station	*depr.*	4	7
Bengarn	*depr.*	35	23
Wisp Hill	*depr.*	12	23
Cross Fell	*depr.*	4	25
Saddleback	*elev.*	8	23
Helvellin	*elev.*	7	12
Dent Hill	*depr.*	27	36

At Wisp Hill.

Cross Fell	*depr.*	2	31
The Cheviot		0	0
The Dunrigs	*elev.*	5	48
Whin Fell	*elev.*	10	26

The ground at		'	"
Queensberry Hill	*depr.*	0	50
Crif-Fell	*depr.*	15	15
Elden Hills, highest Point	*depr.*	25	10
Skiddaw	*depr.*	0	40
Soutra Hill	*depr.*	18	45
Sayrs Law	*depr.*	18	29

At Sayrs Law.

Spartleton	*depr.*	30	44
Arthur's Seat	*depr.*	37	35
Pentland Station	*depr.*	12	29
Pentland Hill near Glencross	*depr.*	13	10
Soutra Hill	*depr.*	6	1
The Dunrigs	*elev.*	5	28
Elden Hills, highest Point	*depr.*	20	15
The Cheviot	*elev.*	5	51
Hedgehope	*depr.*	1	51
Wisp Hill	*depr.*	11	57
West Lomond	*depr.*	14	16
East Lomond	*depr.*	18	11
Largo Law	*depr.*	28	47

At Lumsdane Hill.

Sayrs Law	*elev.*	28	6
Spartleton	*elev.*	31	48
Largo Law	*depr.*	9	32
The Cheviot	*elev.*	30	48
Hedgehope	*elev.*	22	15
Blackheddon	*depr.*	10	54
East Lomond	*depr.*	6	38
West Lomond	*depr.*	4	48
Cockburn Law	*elev.*	20	50
Warlaw Bank	*elev.*	13	48
Great Dirrington Law	*elev.*	21	24
Twinlaw Cairns	*elev.*	20	9
Habchester Hill	*depr.*	7	11

At Mordington Hill.

Blackheddon	*depr.*	4	54
Roes Castle	*elev.*	3	34
Hedgehope	*elev.*	38	30
The Cheviot	*elev.*	45	37
Sayrs Law	*elev.*	21	20

The ground at		′	″
Habchester Hill	elev.	30	0
Elden Hills, highest Point	elev.	4	33

At Blackbeddon.

The Cheviot	elev.	1°	28	39
Hedgehope	elev.	1	18	12
Simonside	elev.		10	11
Roes Castle	elev.		25	16
Sayrs Law	elev.		9	51
Lumsdane Hill	depr.		6	14
Habchester Hill	depr.		3	20

At Alnwick Moor.

The ground at			′	″
The Cheviot	elev.	1°	12	28
Hedgehope	elev.	1°	10	22
Simonside	elev.		26	59
Rufflaw	depr.		15	26
Roes Castle	elev.		13	6

At Rufflaw.

Pontop Pike	elev.	2	18
Collier Law	elev.	9	42
Wordeslow Hill	depr.	10	6
Alnwick Moor	elev.	4	45
Hedgehope	elev.	43	46
The Cheviot	elev.	48	33
Simonside	elev.	53	58

ART. III. *Situations of the Stations.*

Royston. The station taking its name from this town, lies about two miles to the westward of it. There is a commanding spot of ground near the road leading to Baldock; and, upon this, between two ridges of ploughed land is the station. A large thorn bush grows on this hill, from which the station is thirty feet distant towards the termination of the ridge with the unploughed land,

Orwell. This station is so named from its being near to the village of Orwell in Cambridgeshire: it is about three quarters of a mile south-westward from it, and is situated on a green spot upon the highest ground at that distance from Orwell.

Maddingly. This station, named after the village to which it lies the nearest, is about fifty yards from a windmill, and close to the south side of the road leading to Cambridge. From Maddingly, it is about one quarter of a mile distant.

Balsham, Cambridgeshire. About a mile and a half from this town, towards the north, is a commanding piece of ground. It is in common fields, and has two clumps of trees growing upon it. The station is in the line joining the centre of these clumps, and may be found by setting off three hundred feet from the northern towards the southern clump.

The station near *Newmarket* is situated on a level spot of ground south-east of the town. It is two hundred and fifty yards eastward from a large circular plantation, and nearly one hundred and fifty westward from the trough at which the race horses are watered.

Brandon. The station, taking its name from Brandon in Suffolk, is in the middle of the rabbit warren on the high ground south from the town. It lies in a corner formed

by the conjunction of two old walls at the distance of two hundred yards from the keeper's hut.

Crowle station is situated about half a mile east from the village of Crowle in Lincolnshire. It is on a rising ground where once stood a windmill. There is now a mill nearly two hundred feet east of this station: it can be easily found.

Hunsley Beacon, Yorkshire. This station is south-west from Beverley, and distant about seven miles. It lies southward from the road leading from North Cave to Beverley, and is also south from the Beacon Pole.

Wilton Beacon, Yorkshire. The hill on which this beacon is erected, lies a little southward of the turnpike road leading from York to Bridlington, and near the fourteenth mile stone on that road. The station is on a bank of earth, and distant from the beacon pole one hundred and fifty feet in a direction nearly south-west.

Nunburnholme, Yorkshire. This station is situated north-west of the village bearing that name, at a distance of nearly two miles: it is on a small common, and lies south from a barn at the distance of one hundred yards nearly.

Looseboe, Yorkshire. The station is about two miles and a half north of the village called by this name. It is on a common, flat and boggy, and altogether open: it may be rather called a moor. There are not any marks on this ground to which the station can be referred.

Greenboe Moor, Yorkshire. This station is on the high ground in the north of Yorkshire, being two miles north from the village of Ingleby Greenboe. It is on a barrow on the highest part of this moor, and can be found very easily. That part of the moor on which the station is situated is known by the name of *Botton Head*.

Helkinton. This station is named from a farm to which it is near. Helkinton Farm is west from the village of Cold Ashby in Northamptonshire, and about three quarters of a mile distant. The station is in the fifth field from the village, and about sixty yards from the road, being close to the western hedge.

Naseby Field. The station is in the centre of the large open field, and on the highest part of it.

Tilton on the Hill. The station near this place is situated on a commanding spot north from the road leading to Oakham. It is on the fifth ridge of unploughed ground east from a stone quarry.

Bardon Hill, Leicestershire. Bardon Hill is on Charlwood Forest, and between nine and ten miles from Leicester. The station is on the flat top of a rock seventy feet west from the summer house built on this hill.

Statbern Point. The station is on the west side of this promontory, and not more than half a mile from Stathern village: it is in the Duke of Rutland's park on a kind of bank, and nearly seventy yards from the gate.

Holland Hill, Nottinghamshire. This hill is about three miles from the village of

Arnold. Round the top of it is a circular ring, probably the remains of some very old military work. Outside this ring, on the northern side of it, is the station: it is in the south-west corner of a field belonging to a Mr. Jones.

Sutton Ashfield. The station, for brevity sake, named Sutton, lies about one mile south-east from Sutton Ashfield; it is on the brow of land terminating Sherwood Forest, and lies close to the road on its eastern side leading from Kirby to the *Red House*, which is situated by the side of the road proceeding from Sutton Ashfield to Mansfield.

Gringley on the Hill. Joining the east end of this village is a field, in which is a very large barrow. The centre of this barrow marks the station.

Clifton Beacon. This station is on the highest ground in the north-west corner of a field close to the village of Clifton near Conisbrough in Yorkshire.

Easington Station. This is near a village of the same name in the north-east of Yorkshire. It lies a little eastward of Lord Dundas's alum works, and in the highest part of a field close to the cliff: a stone hedge lies a little south from the station, and another west from it at a short distance. The place on which this station is situated can be easily found, as it is the highest part of the ground in this quarter.

Burleigh Moor. This spot lies nearly north from the town of Gisborough in Yorkshire, at a distance of three miles. It is in the grounds at Upleatham, the seat of Lord Dundas, and has an open view of the sea. On the northern part of the hill the ground slopes to the westward, and also to the northward, on which side there is a plantation. The place of the station is about thirty feet southward of the stone hedge, separating the plantation from the ploughed ground. By the favour of Lord Dundas, a high pole was left standing on the station, where it now remains.

Symmond's Hall, Glocestershire. This station is west from the house bearing this name. It is about eighty yards from the eastern side of the Wooten-under-edge road, passing near Symmond's Hall, and about thirty yards from the southern wall inclosing a bowling green.

Blagdon Hill, Somersetshire. This is one of the hills forming the Mendip range. It lies midway between the villages of Blagdon and Chedder, and the station is the centre of the largest barrow on the hill.

Quantock Hills, or *Bagborough Station,* Somersetshire. On the highest part of the Quantock Hills, west from Coltheston Beacon, at about two miles distant, are barrows. They are above the village of Bagborough. One of these barrows is named *Will's Neck,* and close to Will's Neck on the eastern side is the station.

Dunkery Beacon near Porlock in Somersetshire. On this well-known hill are two stone barrows touching each other at their bases. Close to both barrows on the western side is the station.

Brompton Ralph, Somersetshire. The ground west from this town rises abruptly, and on the highest part of this ground, near the slope, are the remains of an ancient quadran-

gular fortification. On the parapet of the north-east corner is the station. This spot is known by the name of *Elworthy Barrows.*

Haddon Beacon, Somersetshire. The station is in the middle of a small inclosure. On the top of this beacon, which is about four miles north from Dulverton.

North Molton Ridge, Devonshire. This is on Exmoor Forest, and situated east from the town of North Molton, two miles and a half. A road passes over the Down upon this ridge, on which is a large barrow in the middle of a bog; on this barrow is the station.

Span Head, or Five Barrow Down, is nearly six miles north from South Molton. A road passes over the Down to the south of the station, and is about five hundred yards from it.

Parracombe Station is two miles south of Parracombe, and on Exmoor. There are several barrows on the Down, and on the third barrow from Parracombe is the station.

Hathersage Moor. This station is in Derbyshire. It is a very commanding situation, lying midway between the town called Hathersage and Sheffield. The station is on the highest part of the Moor, the ground falling gradually around it. Near the station, a turnpike road branches off towards Stoney Middleton, leaving the station in the angle formed by that road, and the one leading from Sheffield over the hill to the town or village of Hathersage.

Orpit Heights, Derbyshire. The high ground, called Orpit Heights, is about two miles from Wirksworth in the direction of Derby. The station is nearly two hundred yards from the old road leading to Derby, and close to the east side of a stone pit on the top of the highest ground. There is a stone of singular form and great size, standing upright very near to this station.

Axedge. The hill bearing this name is two miles south-west from Buxton. On the top of this well known hill is a barrow, the centre of which marks the station.

Weaver Hill, Staffordshire. This hill is north from Wooten, and close to it. The station is on a barrow on the top. The centre of the barrow marks the station.

Castle Ring. In the Earl of Uxbridge's park in Cannock Forest, Staffordshire, is a high spot of ground, on which are the remains of an ancient fortification. The interior of the work is planted with trees, and the point marking the station is on the western embankment.

Bar Beacon, Staffordshire. This is a well known spot near Walsall, having a circular plantation on its top. The point marking the station cannot be easily found for want of proper marks to which it can be referred. From the northern edge of the plantation, it is about thirty yards distant.

Malvern Hills. The station is on the highest point of the range, and just above the town of Great Malvern. It can be easily found.

Cleeve Hill, Glocestershire. The station is nine feet north from the wall, which runs

nearly in a direction east and west across the hill. The distance is taken perpendicularly to the wall, and is the nearest point from the wall to the station. Cleeve Hill is a part of the high ground eastward of and near to Cheltenham.

Beacon Moor near Chumleigh in Devonshire. This station is a mile and a half from the town towards the north. It cannot be easily found; it is however on the highest part of the Down.

Hatherleigh Station in Devonshire, is about twenty yards to the westward of the road leading to Chumleigh, and about one mile from the town. It is near the hedge, and a little south from the cottage.

Bradbury Castle on Bradbury Down, Devonshire. The station is on the outside of the parapet, and close to the ditch at the north-west corner of the work.

Warbstow Beacon in Cornwall, is situated about half a mile north-west of Warbstow. The station is in the middle of the field said to have been the site of an old beacon.

May Hill, Glocestershire. This is a well known spot near the village of Huntley. The station is on the south-east side of a circular plantation growing on this hill.

Trelleg Beacon, Monmouthshire. Trelleg Beacon is situated on Trelleg Moor near the town of Trelleg. The station is on the place where a beacon formerly stood, and may be easily found.

Cradle Mountain, Brecknockshire. The high land south from Talgarth, and some few miles from it, bears the name of Black Forest. Cradle Mountain is in the middle of this forest. The station is marked by the centre of an obtruncated cone on the highest part of the mountain.

Mynydd Mane, Monmonthshire. This station is on the high land south-west from Pontypool, and about three miles from it. The hill lies between two canals joining at Newport. A road passes over the hill. The station is seventy yards south from the road, and near to the eastern side of the hill.

The Garth. The hill thus called is close to, and a little to the north of Pentyrch in Glamorganshire. Two very large barrows stand on this hill, and the station is on the top of the western barrow.

Ogmoor Down, Glamorganshire. This Down lies between the villages of Ogmoor and St. Bride's. A part of this common is inclosed, and in the south-west corner of a field belonging to the rectory of St. Bride's is the station.

Margam Down near Margam in Glamorganshire. The station is north from the town about two miles. It is situated on the apex of a small round hill near a pond on this Down.

Llangeinor. The station taking this name is situated on a mountain thirteen or fourteen miles from Bridgend, towards the north, and six or seven miles from the village of Llangeinor. The land in this quarter is high, and, being entirely devoid of any defined

object, does not admit of the means by which the station can be accurately pointed out. A mountain called Blaengarrw is west from the station nearly a mile and a half.

Cefn Bryn, Glamorganshire. Twelve miles west from Swansea is Llanridian, a small village. South from Llanridian, and near to it, is a range of high ground having a direction east and west. At the eastern extremity of the range is a pile of stones, and near to this is the station, round which are placed many other stones for the purpose of preserving it. A remarkable stone, called King Arthur's stone, is placed on this range nearly a mile westward.

Lannon, Caermarthenshire. The station near this village is on the top of an insulated hill on the south-west side of Lannon. A ring of stones surrounds the station.

Marros Beacon, Caermarthenshire. The beacon is south from Marros church a half a mile, and near the coast.

Newton Down, Pembrokeshire. This Down is nearly two miles and a half south-east from Pembroke. The station cannot be pointed out with sufficient accuracy, the Down being flat, open, and destitute of marks of reference.

Highgate Mountain. The land thus called is south from Pembroke, and the station is about two miles from that town in a south-west direction. There are not any marks near this station to which it can be referred.

St. Ann's Hill, Pembrokeshire. The station on this head land, is about one mile from the village of Dale, being in a field, a little more than half a mile from St. Ann's Lighthouses. The field may be easily found, as the farm house and the highest of the lighthouses are nearly in the same line from the station. From the south-west corner of this field, the station is distant three hundred and ten feet, and from the south-east corner three hundred and seventy-five feet.

Plumstone Down. This station lies nearly seven miles north-west from Haverfordwest, and a mile eastward from Roch Castle. The place of the station cannot be pointed out otherwise than by saying, that it is on that part of the Down which affords the most extensive views.

Precelly Top. This is a high and very well known mountain, north from Haverfordwest fourteen miles. The mountain is conical, and has a barrow on the top of it. On the south side of the flat head of the barrow is the station.

Capel Kynon is in Cardiganshire. The station is on an extensive moor seven miles east from Newcastle in Caermarthenshire. There are not any marks on this Down by which the station may be discovered.

New Inn, a village in Caermarthenshire. The station taking its name from this place is about two miles from it in a southern direction: there are two large barrows on the hill. The station is on the western barrow.

Talsarn, Cardiganshire. The hill on which this station is to be found is about three miles north of the village of Talsarn. A barrow of great magnitude stands on the hill: the station is upon it, and near the centre of the barrow.

Caermarthen Vau. The staff was erected on the highest part of this hill. Caermarthen Vau is a very high mountain, sometimes called Trecastle Beacon.

Capellante, a mountain in Brecknockshire. The station is on the highest part of the mountain, which has a conical top.

Tregarron Down is four miles from the town of Tregarron in Cardiganshire, in a direction nearly south-east: on the top of the Down is a large heap of stones. The station is sixty yards south from it.

Aberystwith, Cardiganshire. At the distance of a mile and a half from Aberystwith, in an eastern direction, is a small conical hill. The station is on the highest part of this hill.

Plynlimmon, Montgomeryshire. The station is on the highest part of this mountain. Near to it are two large piles of stones. The station is on the north east side of the highest pile, and about twenty feet from it.

Peggwns Tawr, or Llandinam Mountain, Montgomeryshire. This station is due east from Llanidloes, and about six miles from it. A barrow stands on the hill, the centre of which marks the station.

Stow, Shropshire. Close to the north side of this village is high rocky ground, having steep rocks on the slope of it. About fifty yards behind these rocks, on the highest part of the hill, the station is to be found.

New Radnor, Radnorshire. The station is in the forest, and on the western side of it. It is about three miles and a half from Radnor.

Clay Hill, commonly called Brown Clay Hill, Shropshire. This hill is nearly a mile south from the village called Prior's Ditton. There is an ancient work of stone on this hill, inclosing a considerable space of ground: on the south-west corner is the station.

The Wrekin, Shropshire. The station is on the eastern and highest part of this mountain.

Long Mountain, Montgomeryshire. This mountain is near Welch Pool, and has on its top a large ancient fortification. The ground within the work rises gradually from the circumference to the centre; and on the highest part of the hill is the station.

Hawkston Obelisk. This object, serving as a point of intersection to several stations, is situated in Sir Richard Hill's Park at Hawkston near Market Drayton.

Ashley Heath, Staffordshire. This heath is about three miles and a half from Market Drayton in an eastern direction. Upon it there is a spot destitute of furze or heath, called *Parson's Chapel.* It is on the highest ground, and the station may be found very easily.

Mow Copt, Staffordshire. This hill is situated four miles south from Congleton, and is well known throughout the county. The station is on the narrow ridge of it, and fifty yards east from a very large rock, on which are the remains of an old gazebo.

Delamere Forest, Cheshire. This forest is situated north from Tarporley, and the

station about five miles from that town. On the forest is a farm called the *Old Pale*, and west from the farm house, is a high piece of ground, at the bottom of which is a rabbit-warren. The hill is the highest on the forest: on the top of it is a hedge, crossing it in a direction north and south, and another hedge meets it at right angles near the top of the hill. The station, on which the zenith sector was erected, is thirty feet west from the former hedge, and forty yards from the latter.

Cyrn y Brain. The mountain called by this name is in Denbighshire, being two miles south-east from the village of Llandegle. On the top is a large carn of stones. The station lies south-east from this carn about thirty yards. A great number of stones were taken from the great carn, and heaped over the station.

Pengarn. This mountain lies between Towyn and Dolgelly in Merionethshire. At the nine mile stone from Towyn, this mountain bears north-west, and is not more than half a mile from it. There is a high stone barrow on the top of the mountain. The station is on this barrow.

Ynaliog. This station is on an insulated conical hill, having a very narrow top, the centre of which marks the station. Ynaliog is about a mile and a half north from Aberdaron in Caernarvonshire.

Rhiw Mountain, Caernarvonshire. This mountain is south-west from Pwlheli, and about twelve miles distant from it. It is close to the little village Rhiw Lan, which lies in the bosom of the bay called Hell's Mouth. The station is thirty-four feet from the corner of the Beacon House.

Snowdon. The object was placed on the very highest part of this mountain.

Moel Rhyddlad, Anglesea. The station is situated on the highest part of this hill, which is about half a mile northward from the village of Llanrhyddlad.

Holyhead, Anglesea. The object observed was the naval signal staff on this mountain.

Llanelian, Anglesea. A mile south-east from this village lies an insulated hill, commonly called Llanelian Mountain. On the top of this hill is a ridge, sloping gradually off towards the north and south. The station is on the highest part of the ridge.

Llwydiart, Anglesea. The hill called by this name is situated on the open ground, and is about a mile east from the village of Pentreth. The south side of the hill is very steep. The station is near the commencement of the slope, and on the highest part of the hill.

Great Orme's Head, Caernarvonshire. The object observed was the naval signal staff.

Llanelian, Denbighshire. A mile and a half from this village southward lies a hill, called Llanelian Mountain. On this hill is a barrow having a concavity on its top. The centre of the concavity marks the station.

West End of Base, Denbighshire. In the eastern angle formed by the sea wall, and the end of the road leading from Abergele to the bathing place, is the station.

East End of Base, Flintshire. The station is near to the road leading from St. Asaph

to Rhuddlan. It is on the west side of the road, and no great distance from it, and is rather more than a quarter of a mile from Rhuddlan.

Moelfre Issa, Denbighshire. This is a mountain nearly three miles south from Abergele. On the top is a heap of stones, and on the western side, close to the heap, is the station.

Gwaunysgaer Down, Flintshire. This hill lies about five miles from the town of Rhuddlan. A village called Gwaunysgaer is at the bottom of the hill on its southern side. The station is on the top of the hill, and in the middle of the green spot commonly called the *Bowling Green*.

Garreg Mountain, Flintshire. This mountain, though properly speaking only a hill, is a mile west from the village of Whitford. The station lies about twenty yards south from an old circular building on the top of the hill.

Heswell Hill, Cheshire. This hill is about three miles west from Parkgate. The station is on the top of it, and north from a pool of water, and within a few feet of it.

Go Hill, Lancashire. This station is in the parish of Aughton, and about a mile from the village. It is half a mile west from Ormskirk Windmill, and on the top of the hill, in the middle of an inclosed field, is the station.

Billinge Beacon, Lancashire. This beacon is half a mile nearly from Billinge in a northern direction. It is situated on a high rising ground, and the station lies on the top of the hill in a direct line between the gazebo and a stone quarry, and about thirty yards from the former.

Belle-field Hill, Cheshire. This hill is about three miles and a half from Warrington towards the south, and a quarter of a mile westward from the road leading from Warrington to Northwick. It is an insulated hill. The station is on the top of the hill, which is of a conical form.

Rivington Hill, Lancashire. This hill is nearly five miles north-west from Bolton, and about a mile and a half eastward from Rivington Pike. A road passes over the hill. The station is nearly a hundred yards north from it. From the want of proper marks on this hill, the precise point marking the station, cannot be pointed out.

Wittle Hill, or *Wittle Pike*, Lancashire. This place is about seven miles northwards of Rochdale, and about two miles north from the road leading from that town to Haslington. A barrow stands on this hill. The station is on the top and in the centre of the barrow.

Holme Moss, Cheshire. This is part of the high land three miles north of Woodhead, and that range of hills which runs from Derbyshire through Cheshire into Yorkshire. Holme Moss is an open and barren spot, and does not contain any singularity of feature, by which the place of the station can be pointed out.

Lord's Seat, near Castleton, Derbyshire. This hill lies one mile north from the road leading from Castleton to Chapel in le Frith, and nearly at an equal distance from those

places. On the top of Lord's Seat is a very high barrow. The station is on the middle of the barrow.

Bradfield Point, Yorkshire. Bradfield Point is the northern extremity of a range, running from the south towards the north, and terminating at this point which is nearly a mile and a half from the village of Bradfield. A road passes over the hill close to the station.

Staincross Heights, Yorkshire. The station is half a mile nearly west from the village called Staincross. It is on the western part of the heights, and near to an old stone quarry.

Ledstone Beacon, Yorkshire. This station is in Ledstone Park. The beacon pole is west from the point marking the station nearly thirty-five yards.

Boulsworth Hill, Lancashire. This hill is about four miles from Colne, and nearly five miles from Burnley, in an eastern direction. A point on this hill is called Ladlaw, and this point is the station.

Bleasdale Forest, Lancashire. The object observed was placed on the highest ground, and near the western termination of this range.

Pendle Hill, Lancashire. On this hill was formerly a beacon. It is distant from Clitherow five miles, and lies south from it. The station is on the eastern part of the hill, and upon the point where the beacon stood.

Ingleborough, Yorkshire. The station on this well known mountain is sixty-seven yards east from the old hut (a shepherd's hut). Round the station are placed a great number of very large stones.

Great Whernside, Yorkshire. This is a high mountain north-east from Kettlewell, and nearly two miles from it. On the top are a great number of huge rocks, scattered about in all directions. One of these rocks towards the south is perfectly flat, and on the centre of it is the station.

Rumbalds, or *Rumbles Moor,* Yorkshire. This place is nearly two miles south from Ilkley. The station is on the highest ground of this moor, and on a barrow.

Hambleton Down, and Black Hambleton Stations, Yorkshire. Hambleton Down is near to Hambleton Inn, which is about seven miles eastward from Thirsk. This station is on the top of a large barrow in the second field south from the moor, and in the second field west from the *Grey Mare Rocks.* Black Hambleton Station is just above Keebeck, a small village at the bottom of the Down, and is also on a barrow.

Beryl Hill, Lancashire, is a rising ground near the village of Warbreck, about three miles to the westward of the town of Poulton in the Fylde. The station is twenty feet west of the side of a lane leading from Warbreck, by some farm houses, to Bispham, and a little to the northward of a sand pit.

The Calf, Yorkshire. The station is about four miles north of Sedbergh, and cannot be discovered by measurement, as there is no defined object near it.

Black Comb. The southmost of the Cumberland range of mountains. The station is on the highest part of the mountain, and is rendered remarkable by a large quantity of stones placed round the lower part of the staff. It is about three miles south-east of the village of Bootle.

Scilly Bank, Cumberland. This station is about one mile and a quarter north-east of Whitehaven.

Dent Hill, Cumberland, is situated towards the western extremity of Copeland Forest, and the station being on its summit, from whence the ground falls abruptly in every direction, may be found without any difficulty.

High Pike, Cumberland. This is one of the Caldbeck Fells, and the station on it is about four miles south of that village.

Cross Fell, A very remarkable mountain about nine miles south of Aldstone in Cumberland. The station is on its summit, and may be discovered by means of the stones placed around the staff.

Water Crag is situated in that mountainous tract of country called Arkengarth Forest, in the North Riding of Yorkshire. The station is about three miles west of the village of Arkendale.

Collier Law is about two miles north-east of Stanhope in the county of Durham. The station is two hundred and thirty-two feet north-west from a pile of stones, which is kept up by the country people with great tenacity.

Brandon Down, or *West Brandon Mount*, Durham. The station is situated on the western end of a sharp ridge of earth, which appears to have been excavated from a quarry near it many years ago. It is the flat part of this ridge which is the summit of the hill, and is about one mile from East Brandon, close to the side of a lane leading from thence to West Brandon.

Wordeslow Hill, Durham. This station is about one mile and a quarter north-east of the village of Houghton le Spring.

Pontop Pike, Durham. There is a plantation and a house near the top of this hill, and a stone fence runs from the end of the plantation in a northerly direction. The station is on the highest part of the hill, and about forty five feet from the angular point formed by the fence and plantation.

Rufflaw, Northumberland, is nearly two miles south of Longhorsley. There are several houses on this hill, but none of them sufficiently near the station to serve as a convenient reference.

Alnwick Moor, is about two miles westward of Alnwick in Northumberland, and the station may be discovered without any difficulty, as it is on the top of the hill, and only five yards from the junction of three stone dikes, measured in a direct line with the light-house on Coquet Island.

Blackbeddon, Northumberland. This hill is situated on the western side of the road,

leading from Belford to Berwick-upon-Tweed, and about one mile and a quarter south-west of Kyloe. The station is on the eastern side of a barrow.

Mordington Hill, Scotland. The station on this hill is about three quarters of a mile south-west from the four mile stone on the road from Berwick-upon-Tweed to Ayton.

Lumsdane Hill, Scotland. On this hill is a large barrow, and the station is one hundred and ninety-six feet west from the centre of it.

Sayrs Law, Scotland. The station is on the highest part of this hill, which is the highest of the Lammer Muir range of hills. It is about nine miles south of Haddington.

Wisp Hill, Scotland. A well-known hill on the western side of the road leading from Longholm to Hawick. The station is about one mile south-west from Morpaul Inn.

Crif-Fell, Scotland. This remarkable hill is about three miles south of New Abbey. The station is close to the southern side of Douglas's Carn.

SECTION SECOND.

ART. I. *Particulars relative to the Measurement of a new Base Line on Rhuddlan Marsh in the Year* 1806, *with the Reduction of that Base Line.*

North-west from St. Asaph, at the distance of four miles, commences an extensive and level piece of ground, which reaches from the village of Rhuddlan on the western borders of Flintshire, to that called Llandulas in Denbighshire. Though it bears the name marsh, yet it is for the most part cultivated and inclosed, having ditches and deep dikes. The soil is of a strong marly nature. A bank from Rhuddlan to Llandulas protects the level from the encroachments of the Irish Sea; the mean height of it above low water mark being about twenty-five feet.

By favour of John Lloyd Esq. a plan of the marsh was procured, drawn to a large scale, which greatly facilitated the choice of that part of it whereon the base line was to be measured. On due examination of the ground, with the assistance of this plan, the particular direction affording the longest measurable line was determined, the eastern extremity being near the road side, adjacent to Rhuddlan bridge, and the western on the bank or sea wall at the distance of nearly an half a mile north from Abergele.

The apparatus for the measurement of this base line, was brought from the place in which it had been deposited in Lincolnshire, after the use of it on Misterton Carr in the summer of 1802, to Rhuddlan Marsh in September, and on the 22d of the same month the base was traced out, and many points in the true line found, and marked with pickets, exactly in the same manner

and by the same means as were adopted in the measurements on Salisbury Plain, Sedgemoor, and Misterton Carr.

In the account of the Trigonometrical operations, published in the Philosophical Transactions, 1803, Mr. Berge is shewn to have re-determined the lengths of the standard and working chains. These chains, from that to the present recorded period, had been carefully preserved and cleaned at proper intervals. They were now compared with each other. At the first trial, the thermometers stood as follows: the chain B being laid straight in the coffer.

Thermometers.

1	2	3	4	5
55·5—	55·5—	55·5—	55·25—	56.

The temperature remaining unaltered, the chain B was taken out of the coffers, and the chain A stretched out in its stead. The difference between their lengths was measured with the micrometer screw, which gave the chain A longer than the chain B one revolution six divisions of the micrometer's head.

This operation was repeated twice in the same day, at times when the sun did not shine out, or the wind blow. The same result was given at each trial, as in the one abovementioned, differing from Mr. Berge's determination, by measuring the length of each chain, 0,0068 parts of an inch.

The fifty feet chain was, on this occasion, compared with the standard B, and discovered to be 12,25, or 0,0471 parts of an inch shorter than that standard.

The line of the base being previously traced out, and blocks of wood sunk at the extremities, to mark the points of departure and termination, the measurement of the base was proceeded with, and continued with little interruption till the 24th day of

October, when it finished with the 249th chain, of which number eight were with the fifty feet chain.

On the first convenient opportunity, after the measurement was completed, the chains A and B were compared with each other, the temperature during the operation continuing uniform, the thermometers in the coffers standing as follows; *viz.*

Thermometers.

1	2	3	4	5
59	60,8	60,8	61	61,6.

From this and several subsequent removals of each chain, it appeared that A exceeded B one revolution 7,5 divisions of the micrometer head, giving a wear of one division and a half, or 0,0058 parts of an inch in the working chain A, by the use of it on this occasion. The fifty feet chain was also compared with the standard, and found to be 12,25, or 00,471 parts of an inch shorter when measured with twice its length.

ART. II. *Reduction of the Base to the Temperature of* 62°.

The apparent length of the base was 241 chains of 100 feet + 8 chains of 50 feet each, and the overplus of the last chain, *viz.* 12,208 feet - - Feet. 24512.208

The length of the chain A, previous to the measurement, may be taken according to Mr. Berge's determination = 100 feet + 0.1325 parts of an inch, in the temperature of 54°; and if half its wear, *viz.* 0.0029 parts of an inch be added to its excess, we shall have $\frac{0.1354}{12} \times 241 = 2{,}723$ feet, which add - - + 2.723

The standard chain B, according to Mr. Berge's determination, is 0.0778 parts of an inch too long; and by our comparisons, it exceeds twice the length of the fifty feet chain by 0.0471 parts of an inch. Therefore twice the length of the fifty chain is 0.0307 parts of an inch too great, which gives $\frac{0.0307}{12} \times 4 = 0{,}01$, which also add - - - - - + 0.01

The sum of the degrees shewn on the thermometers was 76945, wherefore $\frac{76945}{5} - 54° \times 24512 \times \frac{0.0075}{12}$ = 1,345 feet, which is the correction for the mean heat in which the base was measured above 54°, the temperature in which the chains were laid off, and this add - - - - - - + 1.345

Finally, we have $\frac{0.01237 \times 245.12 \times 8}{12} = 2{,}022$ feet for the reduction of the base to the temperature of 62°, which subtract - - - - - — 2.022

Hence the true length of the base in the temperature of 62° is - - - - - 24514.26

ART. III. *Calculation of the Sides of the principal Triangles carried on from the Side joining the Stations Bowbrickhill and Lilleyhoe towards Cambridgeshire and Norfolk. Plate I.*

Distance from Bowbrickhill to Lilleyhoe, 69867,5 feet. Phil. Trans. 1803.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
		° ′ ″	″	° ′ ″	Feet.
	Royston	18 55 45,5	+ 0,51	18 55 46	
	Lilleyhoe	139 18 13,5	— 1,21	139 18 13	
	Bowbrickhill	21 46 1	— 0,13	21 46 1	
		180 0 0			
	Royston from { Lilleyhoe				79866,8*
	Royston from { Bowbrickhill				140433,6

Distance from Lilleyhoe to Lidlington 49025 feet. Phil. Trans. 1803.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
II.	Royston	23 43 41,75		23 43 42	
	Lilleyhoe	115 18 36		115 18 36	
	Lidlington	. . .		40 57 42	
	Royston from { Lilleyhoe				79867*
	Royston from { Lidlington				110136,5
III	Royston	126 8 16,75		126 8 16	
	Orwell	35 24 20		35 24 20	
	Lilleyhoe	. . .		18 27 24	
	Orwell from { Lilleyhoe				111330,9
	Orwell from { Royston				43642,8
IV	Royston	50 58 3,5		50 58 3	
	Orwell	101 51 21,5		101 51 21	
	Balsham	27 10 36		27 10 36	
		180 0 1			
	Balsham from { Orwell				74225
	Balsham from { Royston				93515,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″		° ′ ″	Feet.
V.	Trusler Hill -	121 38 32		121 38 32	
	Brogborough -	46 15 28		46 15 28	
	Lilleyhoe - -	12 6 0		12 6 0	
		180 0 0			
	Brogborough from { Trusler Hill				14702,7
	Brogborough from { Lilleyhoe -				59713,5
VI.	Orwell - -	54 0 44,5		54 0 44	
	Maddingly -	102 57 27,75		102 57 27	
	Balsham - -	23 1 49,25		23 1 49	
		180 0 1,5			
	Maddingly from { Balsham -				61627,8
	Maddingly from { Orwell - -				29796,8
VII.	Orwell -	19 7 3		19 7 3	
	Balsham	130 25 24		130 25 24	
	Newmarket	. . .		30 27 33	
	Newmarket from { Balsham -				47954,2
	Newmarket from { Orwell - -				111467,4
IX.	Maddingly - -	96 47 58,25		96 47 58	
	Balsham - -	40 24 23,75		40 24 24	
	Northy -	. . .		42 47 38	
	Northy from { Balsham -				90076,1
	Northy from { Maddingly -				58801,6
IX.	Balsham - -	45 31 21		45 31 21	
	Newmarket -	104 53 23		104 53 23	
	Ely Minster - -	. . .		29 35 16	
	Ely Minster from { Newmarket -				69298,5
	Ely Minster from { Balsham -				93860,1

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″		° ′ ″	Feet.
x.	Newmarket -	71 6 46,25		71 6 46	
	Brandon Hill -	51 50 57,25		51 50 57	
	Ely Minster - -	. . .		57 2 17	
	Brandon Hill from { Ely Minster				83377,9
	Newmarket -				73937,7
xi.	Newmarket -	58 55 4,25		58 55 4	
	Brandon Hill -	66 5 15,75		66 5 15	
	Littleport - -	. . .		54 59 42	
	Littleport from { Brandon -				77307,5
	Newmarket -				82519,6
xii.	Trusler Hill -	79 8 40,5		79 8 40	
	Bowbrickhill - -	39 44 20		39 44 20	
	Brogborough -	61 7 0		61 7 0	
		180 0 0,5			
	Brogborough from Bowbrickhill -				22587,2*
xiii.	Bowbrickhill -	54 38 58		54 38 58	
	Lilleyhoe - -	17 58 10		17 58 10	
	Brogborough -	. . .		107 22 52	
	Brogborough from { Bowbrickhill				22586,2*
	Lilleyhoe -				59712,5
xiv.	Bowbrickhill -	39 51 19		39 51 19	
	Hill Farm - -	27 50 22		27 50 22	
	Horsemoor Hill -	. . .		112 18 19	
	Horsemoor Hill from { Browbrickhill				8166,1
	Hill Farm				11206,2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″		° ′ ″	Feet.
XV.	Bowbrickhill -	5 52 54		5 52 54	
	Trusler Hill - -	3 59 0		3 59 0	
	Horsemoor Hill -	170 8 6		170 8 6	
		Horsemoor Hill from		Bowbrickhill	8165,6
				Trusler Hill	12044,8
XVI.	Brogborough -	19 4 25		16 4 25	
	Bowbrickhill - -	45 37 41		43 37 41	
	Horsemoor Hill -	. . .		115 17 54	
		Horsemoor Hill from		Brogborough	17859
				Bowbrickhill	8164,4
XVII.	Brogborough -	85 29 1		85 29 1	
	Bowbrickhill - -	37 6 50		37 6 50	
	Hill Farm - -	. . .		57 24 9	
		Hill Farm from		Brogborough -	16178
				Bowbrickhill -	26728,9

ART. IV. *Calculation of the Sides of the principal Triangles carried on from the Side Arbury Hill and Bardon Hill towards the Northern Part of Leicestershire.*

Distance from Arbury Hill to Bardon Hill 180434 feet.

XVIII.	Arbury Hill -	36 45 31,75		36 45 32	
	Bardon Hill - -	17 44 20,5		17 44 21	
	Helkinton - -	125 30 8		125 30 7	
		180 0 0,25			
		Helkinton from		Arbury Hill -	67529,4
				Bardon Hill -	132638,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″			Feet.
XIX.	Arbury Hill	27 3 31,25		27 3 31	
	Burrow Hill	143 13 51,25		143 13 51	
	Helkinton			9 42 38	
				Burrow Hill from { Helkinton -	51319,1
				Arbury Hill	19028,4

Distance from Holland Hill to Bardon Hill 124460 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
XX.	Holland Hill	68 46 52,5		68 46 52	
	Bardon Hill -	39 39 16,5		39 39 17	
	Stathern Point	71 33 50,75		71 33 51	
		179 59 59,75			
				Stathern Point from { Bardon Hill	122298,7
				Holland Hill	83722,1

From the last triangles we get the distance from Bardon Hill to Helkinton = 132638,3 feet, and the distance from Bardon Hill to the station on Stathern Point = 122298,7 feet; these, with the observed angle at Bardon Hill, viz. 93° 15′ 28″, give the angles in the following triangle.

XXI.	Stathern Point -	45 33 55
	Helkinton - -	41 40 37
	Bardon Hill -	93 15 28 which triangle gives 185455,2 feet for the distance between Helkinton Station and Stathern Point Station.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
XXII.	Helkinton - -	9 0 10		9 0 10	
	Stathern Point -	11 10 53		11 10 53	
	Tilton on the Hill - -	159 48 57		159 48 57	
		180 0 0			
				Tilton on the Hill from { Stathern Point	84108
				Helkinton -	104228,2
XXIII.	Helkinton - -	50 10 46,5	−0,7	50 10 46	
	Bardon Hill -	50 32 31,25	−0,48	50 32 31	
	Tilton on the Hill -	79 16 43,5	−1,58	79 16 43	
		180 0 1,25			
				Tilton on the Hill { Helkinton -	104228,1
				Bardon Hill	103683,2

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
		° ′ ″		° ′ ″	Feet.
XXIV.	Bardon Hill -	42 42 56,75	—0,32	42 42 56,5	
	Tilton on the Hill -	80 32 18,5	—0,6	80 32 18,5	
	Stathern Point -	56 44 45,25	—0,95	56 44 45	
		180 0 0,5			
	Tilton on the Hill from Stathern Point				841076
XXV.	Bardon Hill - -	23 23 48,5	—0,2	23 23 48	
	Holland Hill	48 13 36,5	—0,11	48 13 36	
	Cropwell Bishop	108 22 36,5	—1,1	108 22 36	
		180 0 1,5			
	Cropwell Bishop { Holland Hill -				52078,1
	Cropwell Bishop { Bardon Hill -				97808,3
XXVI.	Bardon Hill - -	16 15 34,25		16 15 34	
	Stathern Point -	43 57 24,5		43 57 24	
	Cropwell Bishop -	119 47 2,25		119 47 2	
		180 0 1			
	Cropwell Bishop from { Stathern Point				39454
	Cropwell Bishop from { Bardon Hill -				97810,2
XXVII.	Cropwell Bishop -	131 50 19		131 50 18	
	Holland Hill - -	20 33 12		20 33 12	
	Stathern Point -	27 36 30		27 36 30	
		180 0 1			
	Cropwell Bishop from { Stathern Point				39452,5
	Cropwell Bishop from { Holland Hill -				52076,2
XXVIII.	Holland Hill - -	40 17 28,75		40 17 29	
	Cropwell Bishop -	97 22 7		97 22 7	
	Bottesford - -	. . .		42 20 24	
	Bottesford from { Holland Hill -				76681,4
	Bottesford from { Cropwell Bishop				50001

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XXIX.	Stathern Point -	93 34 9		93 34 9	
	Cropwell Bishop -	34 28 15		34 28 15	
	Bottesford - -	. . .		51 57 36	
	Bottesford from { Stathern Point				28352,8
	Cropwell Bishop				49997,8
XXX.	Cropwell Bishop -	125 27 11,25		125 27 10	
	Holland Hill -	18 42 50,75		18 42 50	
	South End of a proposed Base Line -	35 50 0,25		35 50 0	
		180 0 2,25			
	South End of Base from { Holland Hill -				72463,5
	Cropwell Bishop -				28541
XXXI.	Cropwell Bishop -	39 52 49,5		39 52 49	
	North End of Base -	38 51 45		38 51 45	
	South End of Base -	101 15 27		101 15 26	
		180 0 1,5			
	North End of Base from { South End -				29165,7
	Cropwell Bishop				44612
XXXII.	Cropwell Bishop -	46 15 59,5		46 15 59	
	Stathern Point - -	75 2 5,5		75 2 4	
	North End of Base	58 41 57,25		58 41 57	
		180 0 2,75			
	North End of Base from { Stathern Point -				33363,6
	Cropwell Bishop				44607,8
XXXIII.	Stathern Point - -	59 3 56,75		59 3 57	
	South End of Base -	101 5 54		101 5 53	
	North End of Base -	19 50 9,5		19 50 10	
		180 0 0,25			
	South End of Base from { North End of Base				29162,3
	Stathern Point -				11537

The last four of the foregoing triangles might have been omitted, were it not that many observations to church towers and other objects were made from the two extremities of the base once proposed to be measured.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″		° ′ ″	Feet.
XXXIV.	Helkinton - -	45 9 48		45 9 48	
	Tilton on the Hill -	9 2 8,25		9 2 8	
	Naseby-field - -	125 48 4,5		125 48 4	
		180 0 0,75			
	Naseby-field from Helkinton - -				20182
	Naseby-field from Tilton on the Hill -				91128,6
XXXV.	Holland Hill - -	73 30 59		73 30 59	
	Stathern Point -	73 17 38		73 17 38	
	Lincoln Minster -	. . .		33 11 33	
	Lincoln Minster from Holland Hill -				146484,5
	Lincoln Minster from Stathern Point				146656,3
XXXVI.	Holland Hill - -	98 5 59,5		98 5 59	
	Sutton Ashfield - -	67 51 16		67 51 16	
	Lincoln Minster -	. . .		14 2 45	
	Lincoln Minster from Holland Hill				146454,7
	Lincoln Minster from Sutton Ashfield				156541,8

Mean distance from Lincoln Minster to Holland Hill 146469,6 feet.

Distance between Castle Ring and Orpit Heights 153235,2 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
XXXVII.	Orpit Heights -	42 2 15	—0,02	42 2 15	
	Castle Ring - -	25 21 43,5	—0,23	25 21 43	
	Weaver Hill -	112 36 3,5	—1,44	112 36 2	
		180 0 2			
	Weaver Hill from Orpit Heights				71095,7
	Weaver Hill from Castle Ring -				111144,1

ART. V. *Calculation of the Sides of the principal Triangles proceeding from the Base Line recently measured on Rhuddlan Marsh.*

Length of the Base on Rhuddlan Marsh 24514,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
		° ′ ″	″	° ′ ″	Feet.
XXXVIII.	East End of Base -	135 11 59,5		135 11 58	
	West End of Base -	20 34 2,5		20 34 1	
	Gwaunysgaer Down	24 14 1,5		24 14 1	
		180 0 3,5			
	Gwaunysgaer Down from { East End of Base				20981,2
	{ West End of Base				42084,2
XXXIX.	East End of Base -	40 12 33		40 12 32	
	West End of Base -	75 45 17		75 45 17	
	Moelfre Issa - -	64 2 11		64 2 11	
		180 0 1			
	Moelfre Issa from { East End of Base				26425,8
	{ West End of Base				17602,4
XL.	West End of Base -	96 19 19 5		96 19 18	
	Gwaunysgaer Down -	21 40 25		21 40 24	
	Moelfre Issa -	62 0 19,5		62 0 18	
		180 0 4			
	Moelfre Issa from the West End of the Base				17601,9

The mean distance between Moelfre Issa and the West End of the Base, viz. 17602,2 feet used in the above triangle, gives the distance between Moelfre Issa and Gwaunysgaer Down Stations = 47372 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
XLI.	Gwaunysgaer Down -	37 42 34,75	+0,03	37 42 34,75	
	Moelfre Issa - -	117 26 11,25	−06,7	117 26 10,5	
	Great Orme's Head -	. . .		24 51 14,75	
	Great Orme's Head from { Gwaunysgaer Down				100030,7
	{ Moelfre Issa - -				68938,8

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XLII.	Moelfre Issa - -	21 49 26	+0,12	21 49 26	
	Llanelian Mountain	138 45 47	−0,86	138 45 46	
	Great Orme's Head -	. . .		19 24 48	
	Llanelian Mountain from { Moelfre Issa -				34761,3
	{ Great Orme's Head				38879,2
XLIII.	Llanelian Mountain	124 52 10,5	−0,10	124 52 10,5	
	Garreg Mountain -	15 12 25	+1,42	15 12 26,5	
	Great Orme's Head	. . .		39 55 23	
	Garreg Mountain from { Llanelian Mountain				95119,4
	{ Great Orme's Head				121605,2
XLIV	Llanelian Mountain -	100 7 44,5	−1,65	100 7 42,75	
	Garreg Mountain -	46 10 32,5	−0,50	46 10 32	
	Arrennig Mountain	. . .		33 41 45,25	
	Arrennig Mountain from { Llanelian Mountain				123697,2
	{ Garreg Mountain				168780,8
XLV.	Garreg Mountain -	52 12 59	−0,48	52 12 58,5	
	Cyrn y Brain - -	92 33 31,5	−1,59	92 33 30	
	Arrennig Mountain -	. . .		35 13 31,5	
	Cyrn y Brain Mountain from { Garreg Mountain				97449*
	{ Arrennig Mountain				133525,4
XLVI.	Garreg Mountain -	98 23 31,5	−1,02	98 23 30,5	
	Llanelian Mountain -	41 24 11,25	−0,51	41 24 10,75	
	Cyrn y Brain Mountain	40 12 19,25	−0,64	40 12 18,75	
		180 0 2			
	Cyrn y Brain Mountain from { Garreg Mountain				97451,1*
	{ Llanelian Mountain				145773,8

Mean distance between the Stations on Cyrn y Brain and Garreg Mountains 97450 feet

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XLVII.	Garreg Mountain -	62 29 13,75	−1,16	62 29 12,75	
	Cyrn y Brain Mountain	74 23 15,5	−1,64	74 23 14,5	
	Delamere Forest -	43 7 33	−0,83	43 7 32,75	
		180 0 2,25			
	Delamere Forest from { Garreg Mountrin - -				137294
	Cyrn y Brain Mountain				126431,6
XLVIII.	Cyrn y Brain Mountain	45 50 51,5	−1,16	45 50 50,5	
	Delamere Forest -	89 38 38,5	−1,91	89 38 37	
	Ashley Heath - -	44 30 32,75	−1,02	44 30 32,5	
		180 0 2,75			
	Ashley Heath from { Cyrn y Brain Mountain				180350*
	Delamere Forest -				129401,1
XLIX.	Delamere Forest -	38 8 17,5	−0,56	38 8 17	
	Ashley Heath - -	58 17 24,5	−0,60	58 17 24	
	Mow Copt - -	. . . .		83 34 19	
	Mow Copt from { Delamere Forest				110780,5
	Ashley Heath -				80418,3
L.	Ashley Heath - -	45 40 38	−0,39	45 40 37,5	
	Weaver Hill -	42 11 18,75	−0,40	42 11 18,5	
	Mow Copt - -	. . .		92 8 4	
	Weaver Hill from { Ashley Heath				119663,4
	Mow Copt -				85668,3
LI.	Weaver Hill - -	64 23 4,75	−0,96	64 23 3,75	
	Castle Ring - -	61 9 42,75	−0,96	61 9 42	
	Ashley Heath - -	. . .		54 27 14,25	
	Castle Ring from { Weaver Hill -				111148,1*
	Ashley Hill -				123178,4*

In the Account of the Trigonometrical Operations, published in the Philosophical Transactions in the year 1803, page 433, Part II. it will be seen that the distance between Castle Ring and the station on Orpit Heights, was found to be 153235,2 feet, which distance entirely depended on the base of verification on Misterton Carr.—This side 153235,2 feet in the 37th Triangle of the present work, viz. Orpit Heights, Castle Ring, and Weaver Hill gives 111144,1 feet for the distance between Castle Ring and Weaver Hill. But by the above triangle, Weaver Hill, Castle Ring, and Ashley Heath, that distance is found to be 111148,4 feet, and depending altogether on the base line recently measured on Rhuddlan Marsh. The difference between the independent results in a line exceeding twenty-one miles in length is 4,3 feet; therefore, if the computation had been carried on directly from one base to the other, as for instance, from Misterton Carr to Rhuddlan Marsh, the measured and computed lengths of the latter base, would not have differed more than nine inches and an half.

Cyrn y Brain Mountain from Arrennig Mountain 133525,4 feet.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″		° ′ ″	Feet.
LII	Cyrn y Brain Mountain	78 27 46,5		78 27 44,75	
	Long Mountain -	47 56 2,5		47 56 1,25	
	Arrennig Mountain -			53 36 14	
	Long Mountain from { Cyrn y Brain Mountain				144778,5
	Long Mountain from { Arrennig Mountain -				176229,4
LIII	Cyrn y Brain Mountain	38 16 4	−0,97	38 16 3	
	Long Mountain -	93 3 53,25	−2,15	3·51	
	The Wrekin - -	. . .		40 6	
	The Wrekin from { Cyrn y Brain Mountain				92531,1
	The Wrekin from { Long Mountain -				19411,8
LIV	Cyrn y Brain Mountain	30 28 30,5	−1,1	30 28 29,5	
	Ashley Heath -	81 36 1,5	−1,77	81 35 59,75	
	The Wrekin -	. . .	.	67 55 30,75	
	Ashley Heath from { Cyrn y Brain Mountain				80352,2*
	Ashley Heath from { The Wrekin - -				98702,9

No. of Triangles.	Names of Stations.	Observed Angles.	Diff	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LV.	Ashley Heath - -	75 28 8,25	—1,11	75 28 7,25	
	Castle Ring - -	44 9 15,5	—0,7	44 9 14,75	
	The Wrekin -	. . .		60 22 38	
		Castle Ring from { Ashley Heath -			123174,7*
		{ The Wrekin -			137161,6
LVI.	Castle Ring - -	89 55 48,75	—0,8	89 55 48	
	Bar Beacon - -	69 24 32	—0,42	69 24 31,5	
	The Wrekin - -	. . .		20 39 40,5	
		Bar Beacon from { Castle Ring -			51699,3*
		{ The Wrekin -			146522,3

Distance from Castle Ring to Corley — 123539,7 feet. Phil. Trans. 1803, p. 433.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff	Angles corrected for Calculation.	Distances.
LVII	Castle Ring - -	35 56 1	—0,25	35 56 0,75	
	Bar Beacon - -	123 41 19	—1,04	123 41 18	
	Corley - -	. . .		20 22 41,25	
		Bar Beacon from { Castle Ring -			51700,5*
		{ Corley - -			87131*

Distance from Bardon Hill to Corley 106357,3 feet. Phil. Trans. 1803, p. 433.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff	Angles corrected for Calculation.	Distances.
LVIII.	Bardon Hill - -	38 8 41,75	—0,51	38 8 41,5	
	Corley - -	92 55 30	—1,13	92 55 29	
	Bar Beacon - -	48 55 50	—0,49	48 55 49,5	
		180 0 1,75			
		Bar Beacon from { Bardon Hill -			140890
		{ Corley - -			87134,5*

From the two first of the last three triangles, we have another verification of the bases on Rhuddlan Marsh and Misterton Carr. The distance from Castle Ring to Bar Beacon, as deduced from the base on the latter spot, is 51700,5 feet and 51699,3 feet, as derived from the base line measured on the former.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LIX.	Cyrn y Brain Mountain	55 20 35,5	—2,13	55 20 33,25	
	Ashley Heath - -	65 58 36,25	—2,54	65 58 33,75	
	Pole on Long Mount Forest - -	. . .		58 40 53	
	Long Mount Pole from { Cyrn y Brain Mountain				192824,7*
	Ashley Heath - -				173653,9
Mean distance from Cyrn y Brain Mountain to Ashley Heath 180351,1 feet.					
LX.	Cyrn y Brain Mountain	62 23 4	—1,44	62 23 2,5	
	Ashley Heath -	39 59 20,25	—0,98	39 59 19,25	
	Rodney's Pillar -	. . .		77 37 38,25	
	Rodney's Pillar from { Cyrn y Brain Mountain				118655,9
	Ashley Heath - -				163604,2*
LXI.	Delamere Forest -	55 4 35,5	—1,5	55 4 34	
	Ashley Heath - -	84 29 50,75	—2,25	84 29 48,5	
	Rodney's Pillar -	. . .		40 25 37,5	
	Rodney's Pillar from { Delamere Forest				198625,6
	Ashley Heath -				163610*
Mean distance from Ashley Heath to Rodney's Pillar 163607,1 feet.					
LXII.	Ashley Heath - -	47 26 30,25	—1,41	47 26 28,75	
	Brown Clay Hill -	64 19 8	—1,63	64 19 6,5	
	Rodney's Pillar -	. . .		68 14 24,75	
	Brown Clay Hill from { Ashley Heath				168604,7*
	Rodney's Pillar				133719,9
LXIII.	Ashley Heath - -	21 27 5,75	—1,05	21 27 5	
	Brown Clay Hill -	83 43 56	—0,64	83 43 55,25	
	Long Mount Pole -	. . .		74 48 59,75	
	Brown Clay Hill from { Ashley Heath -				168600*
	Long Mount Pole -				63889,2

Mean distance from Brown Clay Hill to Ashley Heath 168602,3 feet.

No. of Triangles.	Names of Stations	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXIV.	Ashley Heath - -	51 18 50	+0,03	51 18 50	
	Brown Clay Hill -	19 10 2	−0,32	19 10 1,75	
	Hawkeston Obelisk -	. . .		109 31 7,5	
	Hawkeston Obelisk from { Ashley Heath -				58731,6*
	Brown Clay Hill -				139632,9
LXV.	Delamere Forest -	25 48 17,5	−0,46	25 48 17	
	Ashley Heath - -	80 37 21	−0,7	80 37 20,25	
	Hawkeston Obelisk -	. . .		73 34 22,75	
	Hawkeston Obelisk from { Delamere Forest -				133105,1*
	Ashley Heath -				58726,2*
LXVI.	Cyrn y Brain Mountain	60 26 45,5	−1,19	60 26 44,25	
	Delamere Forest -	63 50 21	−1,23	63 50 19,75	
	Hawkeston Obelisk -	. . .		55 42 56	
	Hawkeston Obelisk from { Cyrn y Brain Mountain				137342,6*
	Delamere Forest -				133108,8*
LXVII.	Long Mountain -	59 58 33,5	−1,26	59 58 32,25	
	Cyrn y Brain Mountain	54 8 40	−1,2	54 8 38,75	
	Hawkeston Obelisk -	. . .		65 52 49	
	Hawkeston Obelisk from { Long Mountain - -				128566,4
	Cyrn y Brain Mountain				137342*

Distance from the Long Mountain to the Wrekin 119411,8 feet.

No. of Triangles.	Names of Stations	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
LXVIII.	Long Mountain -	84 0 3,5	−1,29	84 0 2,25	
	Stow Hill - -	52 20 58	−0,79	52 20 57,25	
	The Wrekin -	. . .		43 39 0,5	
	Stow Hill from { Long Mountain -				104104,3
	The Wrekin -				149994,2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXIX	Stow Hill - -	23 28 32	−0,03	23 28 32	
	Brown Clay Hill -	122 50 14,5	−1,53	123 50 13	
	The Wrekin - -	. . .		33 41 15	
	Brown Clay Hill from { Stow Hill -				99017,7
	Brown Clay Hill from { The Wrekin				71114,3
LXX	Stow Hill - -	40 7 52		40 7 52	
	Brown Clay Hill -	47 12 31		47 12 31	
	Long Mount Pole -	. . .		92 39 37	
	Long Mount Pole from Stow Hill				72740,8
LXXI.	Stow Hill - -	56 46 16	−1,16	56 46 15	
	Brown Clay Hill -	89 6 55	−1,67	89 6 53,5	
	Malvern Station -	34 6 52	−1	34 6 51,5	
		180 0 3			
	Malvern Station from { Stow Hill -				176529,8
	Malvern Station from { Brown Clay Hill				147682,1
LXXII.	Stow Hill - -	67 53 50	−1,38	67 53 48,75	
	Malvern Station -	49 58 40,5	−1,76	49 58 38,75	
	Cradle Mountain -	. . .		62 7 32,5	
	Cradle Mountain from { Malvern Station				185623,2
	Cradle Mountain from { Stow Hill -				152928,4

Mean distance from Cyrn y Brain Mountain to Garreg Mountain 97450 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
LXXIII.	Cyrn y Brain Mountain	69 54 7	−1,37	69 54 5,75	
	Garreg Mountain -	81 7 0,25	−1,77	81 6 58,5	
	Snowdon - -	. . .		28 58 55,75	
	Snowdon from { Cyrn y Brain Mountain -				198707,2
	Snowdon from { Garreg Mountain - -				188872,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″		° ′ ″	Feet.
LXIV.	Garreg Mountain -	36 1 24,75	-1,49	36 1 23,25	
	Llanelian Mountain	58 20 7,25	-1,56	58 20 5,75	
	Snowdon - - -			85 38 31	
	Llanelian Mountain in Anglesea, from	Garreg Mountain			221266*
		Snowdon -			130506

Distance from Llanelian Mountain, Denbighshire, to Garreg Mountain 95119,4 feet.

LXXV.	Llanelian Mountain	148 8 2,5	—5,4	148 7 57	
	Garreg Mountain -	18 44 53,5	+2.27	18 44 55,75	
	Llanelian Mountain, Anglesea, - -	13 7 8,25	+1,45	13 7 7,25	
		180 0 4,25			
	Llanelian Mountain from	Garreg Mountain -			221259*
		Llanelian Mountain, in Denbighshire -			134702,5
LXXVI.	Llanelian Mountain, Anglesea - -	103 47 38	—1,14	103 47 36,75	
	Moel Rhyddlad	55 44 39,25	—0,15	55 44 39	
	Snowdon - - -	. . .		20 27 44,25	
	Moel Rhyddlad from	Llanelian Mountain, Anglesea			55199,1
		Snowdon - - - -			153342,7
LXXVII.	Moel Rhyddlad -	31 43 44,5	—0,07	31 43 43,5	
	Llanelian Mountain, Anglesea - -	111 13 19	—0,45	111 13 17,5	
	Llwydiart Mountain -	37 2 59,75	—0,05	37 2 59	
		180 0 3,25			
	Llwydiart Mountain from	Moel Rhyddlad - - -			85402,9*
		Llanelian Mountain, Anglesea			48180,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXXVIII.	Moel Rhyddlad - -	24 0 54,75	+0,19	24 0 55	
	Llwydiart Mountain -	131 13 8	−1,81	131 13 7,75	
	Snowdon - - -	. . .		24 45 57,75	
	Llwydiart Mountain from { Moel Rhyddlad				85399,4*
	{ Snowdon -				82966,6
LXXIX.	Llanelian Mountain, Anglesea - -	8 49 1,5	+0,21	8 49 1,75	
	Llanelian Mountain, Denbighshire -	23 15 52	+1,10	23 15 53	
	Great Orme's Head -	. . .		147 55 5,25	
	Great Orme's Head from { Llanelian Mountain, Denbighsh.				38874,7*
	{ Llanelian Mountain, Anglesea -				100172,7*
LXXX.	Llanelian Mountain, Anglesea - - -	46 36 31,75	−0,10	46 36 31,76	
	Llwydiart Mountain -	105 49 45	−0,58	105 49 44,25	
	Great Ormes Head -	. . .		27 33 44	
	Great Orme's Head from { Llanelian Mountain, Anglesea				100178*
	{ Llywdiart Mountain - -				75666,6
LXXXI.	Llanelian Mountain, Anglesea - - -	98 31 59	−0,62	98 31 58,5	
	Llwydiart Mountain -	54 55 34	−0,17	54 55 33,75	
	Signal Staff, Holyhead	. . .		26 32 27,75	
	Signal Staff, Holyhead, from { Llanelian Mountain, Anglesea				88245,4
	{ Llwydiart Mountain - -				106631,7*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXXXII.	Moel Rhyddlad - -	116 10 1,5	−0,68	116 10 0,75	
	Llwydiart Mountain -	17 52 34,25	−0,09	17 52 34,25	
	Signal Staff, Holyhead	. . .		45 57 25	
	Signal Staff, Holyhead from { Moel Rhyddlad -				36469,3
	Llwydiart Mountain				106631,6*
LXXXIII.	Llwydiart Mountain -	65 9 1	−1,32	65 8 59,75	
	Rhiw Mountain - -	33 24 7,5	−1,15	33 24 6,25	
	Signal Staff, Holyhead	. . .		81 26 54	
	Rhiw Mountain from { Llwydiart Mountain -				191543,9*
	Signal Staff, Holyhead				175763,1
LXXXIV.	Llwydiart Mountain -	83 1 35,25	−1,59	83 1 33,75	
	Moel Rhyddlad - -	71 53 58,5	−1,19	71 53 57,25	
	Rhiw Mountain - -	. . .		25 4 29	
	Rhiw Mountain from { Llwydiart Mountain				191540,4*
	Moel Rhyddlad -				200022
LXXXV.	Moel Rhyddlad - -	47 53 3,75	−1,47	47 53 2,25	
	Rhiw Mountain - -	49 29 29	−1,5	49 29 27,5	
	Snowdon - - -	. . .		82 37 30,25	
	Rhiw Mountain from { Moel Rhyddlad				200017,7*
	Snowdon -				149608,4
LXXXVI.	Moel Rhyddlad - -	78 24 43	−1,12	78 24 41,75	
	Llwydiart Mountain -	78 18 19,5	−1,11	78 18 18,5	
	Ynaliog Mountain -	. . .		23 16 59,75	
	Ynaliog Mountain from { Moel Rhyddlad -				211568,7*
	Llwydiart Mountain				211649,7

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
LXXXVII	Moel Rhyddlad - -	6 30 44,5	—0,22	6 30 44,25	
	Rhiw Mountain -	112 59 8,75	—1,65	112 59 7	
	Ynaliog Mountain -	. . .		60 30 8,75	
	Ynaliog Mountain from { Moel Rhyddlad				211562,5*
	Rhiw Mountain				26063,2
LXXXVIII	Moel Rhyddlad - -	48 35 21,75	—0,10	48 35 21,75	
	Llwydiart Mountain -	95 4 5	—1,18	95 4 3,75	
	Bwlch Mawr - - -	. . .		36 20 34,5	
	Bwlch Mawr from { Moel Rhyddlad -				143545,3*
	Llwydiart Mountain				108077,8
LXXXIX.	Moel Rhyddlad -	23 18 36,75	—0,26	23 18 36,5	
	Rhiw Mountain - -	39 47 36,25	—0,38	39 47 35,75	
	Bwlch Mawr - -	. . .		116 53 47,75	
	Bwlch Mawr from { Moel Rhyddlad				143544,4*
	Rhiw Mountain				88749,9
XC.	Rhiw Mountain - -	67 56 45,75	—0,93	67 56 44,75	
	Pengarn Mountain -	36 35 43,5	—0,73	36 35 42,75	
	Bwlch Mawr - - -	. . .		75 27 32,5	
	Pengarn Mountain from { Rhiw Mountain				144101,3*
	Bwlch Mawr -				137976,8
XCI.	Rhiw Mountain - -	58 14 49,5	—1,40	58 14 48	
	Pengarn Mountain -	62 48 16,25	—1,46	62 48 14,75	
	Snowdon - - - -	. . .		58 56 57,25	
	Pengarn Mountain from { Rhiw Mountain				144101,6*
	Snowdon - -				143027,1

Mean distance from Pengarn Mountain to Rhiw Mountain 144101,4 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
XCII.	Aberystwith Station -	45 23 56,5	−0,22	45 23 56,25	
	Pengarn Mountain -	107 56 47,5	−2,20	107 56 45,25	
	Rhiw Mountain - -	26 39 20		26 39 18,5	
		180 0 4			
	Aberystwith from Rhiw Mountain -				192534,5*
	Aberystwith from Pengarn Mountain				90794
XCIII.	Rhiw Mountain -	84 54 5,5		84 54 2	
	Aberystwith - - -	39 44 28		39 44 26,5	
	Snowdon - -	. . .		55 21 31,5	
	Aberystwith from Rhiw Mountain -				192530,4*
	Aberystwith from Snowdon - -				233088,1

Mean distance from Aberystwith station to Rhiw Mountain 192532,5 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
XCIV.	Aberystwith - - -	60 6 50		60 6 48,5	
	Rhiw Mountain - -	32 57 28		32 57 27,5	
	Cader Idris - - -	. . .		86 55 44	
	Cader Idris from Aberystwith -				104891,8
	Cader Idris from Rhiw Mountain -				167168,5*
XCV.	Rhiw Mountain - -	6 18 12	+0,09	6 18 12	
	Pengarn Mountain -	140 14 21	−2,26	140 14 18,75	
	Cader Idris - - -	. . .		33 27 29,25	
	Cader Idris from Rhiw Mountain -				167171,4*
	Cader Idris from Pengarn Mountain				28696,5

The distance from Rhiw Mountain to Snowdon, viz. 149608,4 feet, and the distance of Cader Idris from Rhiw Mountain, as found by the above triangle, viz. 167171,4 feet, together with the included angle at the latter station, give 139622,7 feet for the distance between Snowdon and Cader Idris.

Distance from Cyrn y Brain Mountain to Garreg Mountain 97450 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
					Feet.
XCVI.	Cyrn y Brain Mountain	112 12 59	−2,55	112 12 47,5	
	Garreg Mountain -	41 30 7	−0,16	41 30 7	
	Arran Fowddy - -	. . .		26 17 5,5	
	Arran Fowddy Mountain from { Cyrn y Brain Mountain				145821,6*
	Garreg Mountain -				203727,7

Distance from Long Mountain to Cyrn y Brain Mountain 144778,5 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
XCVII.	Cyrn y Brain Mountain	58 48 27,5	−1,39	58 48 26	
	Long Mountain -	60 57 38	−1,42	60 57 36,5	
	Arran Fowddy - -	. . .		60 13 57,5	
	Arran Fowddy Mountain from { Cyrn y Brain Mountain				145818,1*
	Long Mountain - -				142673,8

Distance from Long Mountain to Stow Hill 104104,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
XCVIII.	Long Mountain -	54 0 22,75	−0,69	54 0 22	
	Stow Hill - -	67 32 20	−0,80	67 32 19	
	Llandinam Mountain or Peggwns Fawr -	58 27 20	−0,72	58 27 19	
		180 0 2,75			
	Llandinam Mountain from { Long Mountain				112887,7
	Stow Hill -				98832,9
XCIX.	Llandinam Mountain	93 14 18	−1,10	93 14 17	
	Long Mountain -	33 16 39	−0,49	33 16 38,5	
	Radnor Forest - -	53 29 5	−0,46	53 29 4,5	
		180 0 2			
	Radnor Forest from { Llandinam Mountain				77069,6*
	Long Mountain -				140236,4

P 2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
c.	Llandinam Mountain	34 46 58	−0,24	34 46 57,75	
	Stow Hill -	51 3 12	−0,24	51 3 11,75	
	Radnor Forest -	94 9 50	−0,56	94 9 50,5	
		180 0 0			
	Radnor Forest from Llandinam Mountain				77068,8*
	Radnor Forest from Stow Hill - -				56530
ci.	Llandinam Mountain	77 33 7	−0,61	77 33 6,5	
	Radnor Forest -	57 22 2	−0,53	57 22 1,5	
	Dwggan Mountain -	. . .		45 4 52	
	Dwggan Mountain from Llandinam Mountain				91665,4
	Dwggan Mountain from Radnor Forest -				108279,3
	Distance from Stow Hill to Cradle Mountain 152928,4 feet.				
cii	Stow Hill - -	40 54 57,25	+0,26	40 54 57,5	
	Radnor Forest - -	120 30 47	−1,53	120 30 45,5	
	Cradle Mountain -	. . .		18 34 17	
	Radnor Forest from Stow Hill -				56534,6*
	Radnor Forest from Cradle Mountain				116260,7
ciii.	Long Mountain -	67 58 3,25	−1,24	67 58 2	
	Llandinam Mountain	65 49 26	−1,53	65 49 24,5	
	Arran Fowddy -	. . .		46 12 33,5	
	Arran Fowddy from Long Mountain				142665,2*
	Arran Fowddy from Llandinam Mountain				144961
civ.	Llandinam Mountain	54 55 22	−0,46	54 55 21,5	
	Plynlimmon - -	92 2 9,5	−1,23	92 2 8,25	
	Arran Fowddy -	. . .		33 2 30,25	
	Plynlimmon from Llandinam Mountain				79089,9*
	Plynlimmon from Arran Fowddy -				118707,7

Mean distance from Llandinam Mountain to Radnor Forest 77069,2 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CV.	Llandinam Mountain	146 0 51,75	−2,31	146 0 49,5	
	Plynlimmon -	16 46 1,25	+0,73	16 46 2	
	Radnor Forest -	. . .		17 13 8,5	
	Plynlimmon from { Llandinam Mountain				79083,9*
	Plynlimmon from { Radnor Forest - -				149336,8

The distance from Llandinam Mountain to Long Mountain is 112887,7 feet, and from Plynlimmon 79089,9 feet. These distances, with the included angle at Llandinam Mountain, viz. 120° 44′ 48″,5 give 167714,3 feet for the distance between Long Mountain and Plynlimmon.

CVI.	Long Mountain -	57 5 6		57 5 4,5	
	Plynlimmon - -	64 3 40,5		64 3 39	
	Arrennig - -	. . .		58 51 16,5	
	Arrennig from { Long Mountain -				176219,4*
	Arrennig from { Plynlimmon -				164503,7
CVII.	Long Mountain -	29 5 39	−0,92	29 5 38	
	Plynlimmon - -	85 5 20	−1,57	85 5 18,5	
	Cader Idris -	. . .		65 49 3,5	
	Cader Idris from { Long Mountain				183172,6
	Cader Idris from { Plynlimmon -				89394,5*

Distance from Aberystwith Station to Cader Idris 104891,8 feet.

CVIII.	Aberystwith -	57 53 27,5		57 53 27	
	Plynlimmon -	83 35 11,5		83 35 11	
	Cader Idris -	. . .		38 31 22	
	Plynlimmon from { Aberystwith -				65740,7
	Plynlimmon from { Cader Idris -				89406,8*

The distance from Garreg Mountain to Snowdon is 188872,5 feet, and from Arrennig 168780,8 feet. The included angle at Garreg Mountain is 28° 54′ 0″. These data give 91343,2 feet for the distance from Arrennig to Snowdon. Also

The distance from Long Mountain to Arrennig is 176229,8 feet, and from Cader Idris 183172,6 feet. These, with the included angle at Long Mountain, viz. 27° 59′ 26″ give 87179,2 feet for the distance between Arrennig and Cader Idris.

Distance from Bar Beacon to The Wrekin 146522,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CIX	Bar Beacon -	26 47 0	−0,62	26 46 59,5	
	Brown Clay Hill	68 11 15,75	0,71	68 11 15	
	The Wrekin -			85 1 45,5	

Brown Clay Hill from { Bar Beacon 157228; The Wrekin 71116,9 }

The distance from Brown Clay Hill to Bar Beacon is 157228 feet, and from the station on Malvern Hills 147682,1 feet. The included angle at Brown Clay Hill corrected for calculation is 79° 51′ 34″. These data give 195843 feet for the distance between Bar Beacon and the station on Malvern Hills, and 47° 55′ 41″,6 for the angle at Bar Beacon between Brown Clay Hill and Malvern Hills. Again,

The distance from Corley to Broadway Beacon is 171568 feet, and from Bar Beacon 87132,7 feet. The angle at Corley, between Broadway Beacon and Bar Beacon, is 96° 33′ 50″. This angle and these sides give 201110,7 feet for the distance between the two last stations, and 57° 56′ 31″,5 for the angle at Bar Beacon between Corley and Broadway Beacon.

Now the angle at Bar Beacon between Corley and Brown Clay Hill was observed, and found to be 140° 7′ 5″. And if from this angle we subtract the two angles at Bar Beacon, as just found, viz. 47° 55′ 41″,5 and 57° 56′ 31″,5, we shall get 34° 14′ 52″ for the angle at Bar Beacon between Broadway Beacon and the station on Malvern Hills. The distances from Bar Beacon to those two stations, are 201110,7 feet and 195843 feet respectively. These, with the angle at Bar Beacon, 34° 14′ 25″ give 116986,8 feet for the distance between Broadway Beacon and the station on Malvern Hills.

It may not be, perhaps, improper to state in this place, that a station towards the centre of this pentagon was chosen for the purpose of subdividing it into the necessary triangles. The spot selected was near Waltham, and observed from Broadway Beacon and Bar Beacon, forming the following triangle.

CX	Broadway Beacon	16 31 57
	Bar Beacon -	39 4 45
	Waltham -	

, from which, with the distance between Bar Beacon and Broadway Beacon, viz. 201110,7 feet, we get 153628,4 feet for the distance between Broadway Beacon and Waltham Hill, and 69348 feet between Bar Beacon and Waltham Hill.

When the party with the instrument were at the station on Brown Clay Hill, a

staff was erected over what was supposed to be the true station on Waltham Hill. It was accordingly observed; but, after the instrument was removed, some suspicions being entertained as to the identity of the point, the person appointed to fix the staff, stated that he could not find the marks put into the ground for distinguishing the station, and therefore chose another station as near to the former one as he well could guess. This, however, not being satisfactory, and the station conceived to be really lost, the instrument was not taken to Waltham Hill.

Distance from Stow on the Wold to Broadway Beacon 52203,2 feet.

No of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″		Feet.
CXI	Stow on the Wold -	51 44 55,75	-0,19	51 44 55,5	
	Broadway Beacon -	78 53 7,75	-0,27	78 53 7,5	
	Cleeve - -	49 21 57,75	-0,17	49 21 57	
		180 0 1,25			
		Cleeve from		Stow on the Wold -	67499,3
				Broadway Beacon -	54020,6
CXII.	Broadway Beacon	59 28 16	-0,4	59 28 16	
	Cleeve -	93 4 9	-0,21	93 4 9	
	Malvern Hills -	27 27 35	-0,19	27 27 35	
		180 0 0			
		Malvern Hills from		Cleeve - -	100909,6
				Broadway Beacon	116981,7*
CXIII	Malvern Hills	64 46 19	-0,59	64 46 18,5	
	Cleeve -	48 29 40,5	,61	8 29 40	
	May Hill -	66 44 2	-0,41	44 1,5	
		180 0 1,5			
		May Hill from		Malvern Hill	82260*
				Cleeve	99365,2

Distance from Cradle Mountain to Malvern Hills 185023,2 feet.

No of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
CXIV	May Hill -	97 43 34	-1,63	97 43 32,25	
	Malvern Hill	56 8 17,25	-0,53	56 8 16,75	
	Cradle Mountain			26 8 11	
		May Hill from		Cradle Mountain	155047,6
				Malvern Hills -	82251,1*

From the triangle Malvern Hills, Cleeve, and May Hill, we find the distance from May Hill to the station on Malvern Hills is 82260 feet, which distance is found by using in calculation the base on Hounslow Heath; but in the last triangle, the distance between those two stations is found to be 82251,1 feet, which determination is the result of computing with the base line recently measured on Rhuddlan Marsh.

The mean distance, therefore, between May Hill and Malvern Hills is 82255,6 feet, which, used in the last triangle, gives 185033,4 feet for the side Cradle Mountain and Malvern Hills, and 155056,1 feet for the side Cradle Mountain and May Hill.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
cxv.	Malvern Hills - -	40 14 17	−1,07	40 14 16	
	Trelleg Beacon -	83 11 45,5	−1,92	83 11 43,5	
	Cradle Mountain -	. . .		56 34 0,5	
	Trelleg Beacon from			Malvern Hill -	155511,2
				Cradle Mountain	120372,3*
cxvi.	May Hill - -	49 56 24,25	−0,26	49 56 24	
	Trelleg Beacon -	92 37 48	−0,87	99 37 47	
	Cradle Mountain -	. . .		30 25 49	
	Trelleg Beacon from			Cradle Mountain	120371,3*
				May Hill -	79656,6
cxvii	May Hill - -	69 12 37,75	−0,56	69 12 36	
	Trelleg Beacon -	59 21 23	−0,51	59 21 21,5	
	Symmond's Hall -	51 26 4	−0,47	51 26 2,5	
		180 0 4,75			
	Symmond's Hall from			May Hill -	87650
				Trelleg Beacon	95243,5
cxviii.	Symmond's Hall -	69 15 59	−1,13	69 15 58	
	Malvern Hills - -	34 56 38,25	−0,88	34 56 37,25	
	Trelleg Beacon -	75 47 26	−1,13	75 47 24,75	
		180 0 3,25			
	Symmond's Hall from			Malvern Hills -	161192,7
				Trelleg Beacon	95240,5*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXIX.	Trelleg Beacon -	56 17 9,25	−0,6	56 17 8,75	
	Mynydd Mane -	78 56 8	−0,84	78 56 7	
	Cradle Mountain -	. . .		44 46 44,25	
	Mynydd Mane from { Trelleg Beacon -				86392,7
	Mynydd Mane from { Cradle Mountain				102023,6
CXX.	Mynydd Mane -	89 22 39,25	−1,34	89 22 38	
	Llangeinor Mountain	42 1 14	−0,66	42 1 13,25	
	Cradle Mountain -	. . .		48 36 8,75	
	Llangeinor Mountain from { Cradle Mountain				152403,1
	Llangeinor Mountain from { Mynydd Mane				114330,3
CXXI.	Mynydd Mane - -	37 25 37,5	−0,15	37 25 37,25	
	Llangeinor Mountain	35 36 25	−0,17	35 36 25	
	Garth Hill - -	106 57 58,5	−0,79	106 57 57,75	
		180 0 1			
	Garth Hill from { Mynydd Mane -				69594,5
	Garth Hill from { Llangeinor Mountain				72646
CXXII.	Llangeinor Mountain	67 3 52,5	−0,36	67 3 53	
	Garth Hill - -	51 2 32	−0,3	51 2 32,5	
	Ogmoor Down -	61 53 34,5	−0,35	61 53 34,5	
		179 59 59			
	Ogmoor Down from { Llangeinor Mountain				64045
	Ogmoor Down from { Garth Hill				75847,9

ART. VI. *Junction of the Triangles carried on in South Wales, with those southward of the Severn and Bristol Channel.*

Distance from Moor Lynch to the station on Mendip Hills 78876,8 feet.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
		° ′ ″	″	° ′ ″	Feet.
cxxiii.	Moor Lynch	43 41 45	-0,27	43 41 44,75	
	Mendip -	61 17 47	-0,29	61 17 46,75	
	Blagdon	75 0 29	-0,35	75 0 28,5	
		180 0 1			
		Blagdon from { Moor Lynch -			71622
		Blagdon from { Mendip - -			56410,5
cxxiv	Mendip -	33 39 30,5	-0,13	33 39 30,5	
	Blagdon -	91 46 4	,33	91 46 4	
	Dundry Beacon	54 34 24,5	-0,12	54 34 25,5	
		180 0 0			
		Dundry Beacon from { Mendip -			69194,1
		Dundry Beacon from { Blagdon -			38368,5

Distance from Moor Lynch to Pilsdon 118231,8 feet.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
cxxv.	Moor Lynch	87 15 6		87 15	
	Pilsdon -	33 58 2		33 58	
	Bagborough	58 46 52		58 46 52	
		180 0 0			
		Bagborough from { Moor Lynch			77243,7
		Bagborough from { Pilsdon -			138092,8
cxxvi.	Moor Lynch	117 40 36,75	-1,06	117 40 35,75	
	Bagborough	29 51 13,25	-0,05	29 51 13,25	
	Blagdon -	32 28 11,5		32 28 11	
		180 0 1,5			
		Bagborough from { Moor Lynch			77243
		Bagborough from { Blagdon -			127418,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″		° ′ ″	Feet.
CXXVII.	Bagborough -	131 59 32		131 59 32	
	Blagdon - -	19 57 6		19 57 6	
	Dunkery Beacon -	28 3 22		28 3 22	
		180 0 0			
	Dunkery Beacon from			Bagborough	92441,6
				Blagdon -	201350
CXXVIII.	Bagborough	87 37 19,5		87 37 19	
	Dunkery Beacon	48 7 46,25		48 7 46	
	Flatholmes Lighthouse	. . .		44 14 55	
	Flatholmes Lighthouse from			Bagborough -	98652,6*
				Dunkery Beacon	132367
CXXIX.	Bagborough - -	44 22 19,75	−0,63	44 22 19	
	Blagdon - - -	50 29 22	−0,55	50 29 21,5	
	Flatholmes Lighthouse	. . .		85 8 19,5	
	Flatholmes Lighthouse from			Bagborough -	98659*
				Blagdon - -	89427,1*
CXXX.	Moor Lynch - -	55 38 59	−0,43	55 38 58,5	
	Blagdon - -	82 57 35	−0,6	82 57 34,5	
	Flatholmes Lighthouse	. . .		41 23 27	
	Flatholmes Lighthouse from			Moor Lynch -	107505,8
				Blagdon -	89431,3*

The mean distance from Blagdon to the Flatholmes Lighthouse, viz. 89429,2 feet, and the distance 38368,5 feet from the same station to Dundry Beacon, with their included angle at Blagdon, 110° 15′ 49″,75, give 108841 feet for the distance between Dundry Beacon and the Lighthouse.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXXI.	Trelleg Beacon -	65 20 25,75	—0,88	65 20 25	
	Symmond's Hall -	70 4 23,5	—0,98	70 4 22,5	
	Dundry Beacon -	. . .		44 35 12,5	
	Dundry Beaçon from { Trelleg Beacon				127553,2
	Symmond's Hall				123303,1
CXXXII.	Trelleg Beacon -	79 23 13,5	—1,04	79 23 12,5	
	Mynydd Mane - -	63 21 9	—0,71	63 21 8,25	
	Dundry Beacon -	. . .		37 15 39,25	
	Mynydd Mane from Dundry Beacon -				140270,6
CXXXIII.	Ogmoor Down -	109 40 6,75	—1,43	109 40 5,25	
	Garth Hill - -	42 42 28,75	—0,14	42 42 28,5	
	Dunkery Beacon -	. . .		27 37 26,25	
	Dunkery Beacon from { Ogmoor Down				110951,7
	Garth Hill -				154039
CXXXIV.	Ogmoor Down -	110 56 49,25	—2,42	110 56 46,75	
	Cefn Bryn - -	31 35 27,25	—0,57	31 35 26,75	
	Dunkery Beacon -	. . .		37 27 46,5	
	Cefn Bryn from { Ogmoor Down				128827,8
	Dunkery Beacon				197804,7
CXXXV.	Llangeinor Mountain	13 36 8,25	+0,98	13 36 9,25	
	Garth Hill - -	152 52 34	—2,55	152 52 31,5	
	Flatholmes Lighthouse	. . .		13 31 19,25	
	Flatholmes Lighthouse from { Llangeinor Mountain				141653,2
	Garth Hill - -				73087,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXXVI.	Llangeinor Mountain	61 42 51,5		61 42 51,5	
	Garth Hill - -	93 44 58		93 44 58	
	Dunkery Beacon -			24 32 10,5	
	Dunkery Beacon from Llangeinor Mountain				174562,8

The angle at the station on Llangeinor Mountain 48° 6′ 43″, and the sides Llangeinor Mountain and Dunkery Beacon, Llangeinor Mountain and Flatholmes Lighthouse, as just found, give 132355,6 feet for the distance between Dunkery Beacon and Flatholmes Lighthouse, which deduction is founded on two base lines, viz. that measured on Rhuddlan Marsh, and that measured on Salisbury Plain. In a former triangle, viz. Bagborough, Dunkery Beacon, and Flatholmes Lighthouse, 132367 feet has been assigned for that distance, and proceeding directly from the base on Sedgemoor. The difference between the two results, all circumstances taken into the account, cannot be considered too great, the distance between Dunkery Beacon and the Flatholmes Lighthouse being something more than twenty-five miles.

The angle at Llangeinor Mountain 49° 12′ 34″, with the sides Llangeinor Mountain, Mynydd Mane, and Llangeinor Mountain, Flatholmes Lighthouse, viz. 114330,3 feet, 141653,2 feet respectively, give 109437 feet for the distance between Mynydd Mane and the lighthouse on the Flatholmes, and 78° 30′ 56″,5 for the angle at Mynydd Mane. This angle taken from the observed angle at Mynydd Mane between Llangeinor Mountain and Dundry Beacon 128° 20′ 3″,7, leaves 49° 49′ 7″ for the corrected angle between Dundry Beacon and the Lighthouse; which, with the side Mynydd Mane Dundry Beacon 140270,6 feet, and the side Mynydd Mane Flatholmes Lighthouse 109437 feet give 108827,1 feet for the distance from Dundry Beacon to the Lighthouse. This distance, previously computed and depending on the Sedgemoor base, is stated to be 108841 feet. Having thus joined the triangles north and south of the Severn and Bristol Channel, it will be now convenient to proceed with the calculation of the sides of the series proceeding from Ogmoor Down and Cefn Bryn along the southern coast of Wales.

CXXXVII.	Cefn Bryn - -	19 57 52	—0,11	19 57 52	
	Ogmoor Down -	43 7 52,75	—0,01	43 7 52,5	
	Margam Down -	116 54 16,5	—0,99	116 54 15,5	
		180 0 1,25			
	Margam Down from Cefn Bryn -				98765.8
	Margam Down from Ogmoor Down				49325,3*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXXXVIII.	Llangeinor Mountain	50 3 4,25	—0,08	50 3 4,25	
	Ogmoor Down -	34 21 34,25	—0,18	34 21 33,5	
	Margam Down - -	95 35 22,5	—0,23	95 35 22,25	
		180 0 1			
	Margam Down from { Llangeinor Mountain				*36317,3
	Ogmoor Down -				49331,1*
CXXXIX.	Margam Down - -	32 1 12	—0,37	32 1 11	
	Cefn Bryn - -	91 3 16,25	—0,35	91 3 15	
	Lannon - -	56 55 34,5	—0,34	56 55 34	
		180 0 2,75			
	Lannon from { Margam Down -				117843,6*
	Cefn Bryn -				62492,6
CXL.	Lannon - -	90 51 8	—0,34	90 51 7,5	
	Cefn Bryn - -	57 55 38,25	—0,44	57 55 38	
	Marros Beacon -	31 13 15	—0,36	31 13 14,5	
		180 0 1,25			
	Marros Beacon from { Lannon -				102163
	Cefn Bryn				120551,1
CXLI.	Marros Beacon -	115 22 29,5	—1,56	115 22 28	
	Lannon - -	28 46 25,25	—0,13	28 46 25	
	Precelly Top -	35 51 6,75	—0,15	35 51 7	
		180 0 1,5			
	Precelly Top from { Marros Beacon				83962,5
	Lannon -				157603
CXLII.	Marros Beacon -	83 40 20		83 40 20	
	Precelly Top - -	47 19 13		47 19 13	
	Highgate Mountain -	49 0 27,5		49 0 27	
		180 0 0,5			
	Highgate Mountain from { Marros Beacon				81773,5
	Precelly Top				110560,7

No of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXIII.	Highgate Mountain -	36 39 47		36 39 47	
	Plumstone Down -	98 31 13		98 31 13	
	Precelly Top - -	. . .		44 49 0	
	Plumstone Down from { Highgate Mountain				78797,4
	{ Precelly Top -				66753,5
CXLIV.	Precelly Top - -	20 26 6		20 26 6	
	Plumstone Down -	140 0 42,75		140 0 41	
	St. Ann's Hill -	19 33 13		19 33 13	
		180 0 1,75			
	St. Ann's Hill from { Precelly Top -				128173,9
	{ Plumstone Down				69637

At Precelly Top, the angle between St. Ann's Hill and Highgate Mountain is 14° 22′ 54″. The distances from Precelly Top to those stations are 128173,9 feet and 110560,7 feet respectively. These data give 53271,6 feet for the distance between St. Ann's Hill and Highgate Mountain.

No of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
CXLV	Marros Beacon -	19 5 59,75		19 6 0	
	Highgate Mountain -	58 6 20,5		58 6 20	
	Newton Down -	102 47 40,5		102 47 40	
		180 0 0,75			
	Newton Down from { Marros Beacon -				71195,3*
	{ Highgate Mountain				27439
CXLVI	Marros Beacon -	64 34 25		64 34 25	
	Precelly Top - -	50 17 43		50 17 43	
	Newton Down -	65 7 51,5		65 7 52	
	Newton Down from { Marros Beacon				71198,2*
	{ Precelly Top -				83579,8

No. of Triangles.	Names of Stations.	Observed Angles	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXLVII.	Precelly Top - -	41 50 29		41 50 29	
	Plumstone Down -	85 23 56,5		85 23 57	
	Newton Down - -	52 45 34,5		52 45 34	
		180 0 0			
	Newton Down from { Precelly Top -				83580,6*
	Plumstone Down				55934,4*
CXLVIII.	Plumstone Down -	54 36 41		54 36 44	
	St. Ann's Hill - -	50 4 37		50 45 37	
	Newton Down -	74 37 39,25		74 37 39	
		180 0 0,25			
	Newton Down from { Plumstone Down				55935,4*
	St. Ann's Hill				58878,1

Distance from Margam Down to Llangeinor Mountain 36317,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles	Diff.	Angles corrected for Calculation.	Distances.
CXLIX.	Margam Down -	56 39 50,5	−0,05	56 39 50,5	
	Llangeinor Mountain	104 20 9,5	−0,55	104 20 9	
	Trecastle Beacon -	. . .		19 0 0,5	
	Trecastle Beacon from { Margam Down -				108076,2
	Llangeinor Mountain				93195,7
CL.	Margam Down -	58 49 18	−0,83	58 49 17,25	
	Lannon - -	56 12 10,5	−0,81	56 12 9,75	
	Trecastle Beacon -	. . .		64 58 33	
	Lannon from { Margam Down -				117843,1*
	Trecastle Beacon -				111268,8
CLI.	Lannon - -	74 9 13	−0,81	74 9 12,25	
	New Inn Hill -	63 13 18,25	−0,69	63 13 17,5	
	Trecastle Beacon -	. . .		42 37 30,25	
	New Inn Hill from { Trecastle Beacon				119898,7
	Lannon - -				84402,8*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLII.	Lannon - -	53 5 25	—0,59	53 5 24,5	
	Precelly Top -	32 15 36,75	—0,58	32 15 36,75	
	New Inn Hill - -	94 38 58,75	—0,08	94 38 58,75	
		180 0 0,5			
	New Inn Hill from { Lannon -				84400,8*
	Precelly Top				126432,6
CLIII.	Precelly Top - -	29 42 12	—0,34	29 42 12	
	New Inn Hill	59 49 29	—0,42	59 49 28,5	
	Capel Kynon -	90 28 20,25	—0,8	90 28 19,5	
		180 0 1,25			
	Capel Kynon from { Precelly Top				109303,4
	New Inn Hill				62650,6
CLIV	Capel Kynon - -	. . .		88 13 0,25	
	New Inn Hill -	47 8 36	—0,26	47 8 35,75	
	Talsarn - -	44 38 24,25	—0,24	44 38 24	
	Talsarn from { Capel Kynon -				65361,8
	New Inn Hill -				89120,2*
CLV	Precelly Top - -	. . .		29 12 47	
	New Inn Hill -	106 58 5	—1,11	106 58 4	
	Talsarn - -	43 49 9	+0,06	43 49 9	
	Talsarn from { Precelly Top -				174655,6
	New Inn Hill -				89121,7*
CLVI.	New Inn Hill -	95 9 38,5	—0,54	95 9 38	
	Talsarn - -	50 4 50,25	—0,27	50 4 50	
	Trecastle Beacon -	. . .		34 45 32	
	Talsarn from Trecastle Beacon -				155698,6

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLVII.	Talsarn - -	56 46 43	—0,33	56 46 42,75	
	Tregarron Down -	98 53 1	—1,15	98 53 0	
	Trecastle Beacon -	. . .		24 20 17,25	
	Tregarron Down from { Talsarn -				64945,7*
	Tregarron Down from { Trecastle Beacon				131832,6

Distance from Aberystwith to Plynlimmon 65740,7 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
CLVIII.	Aberystwith - -	66 50 30	—0,4	66 50 29,5	
	Plynlimmon -	68 46 0	—0,46	68 45 59,5	
	Tregarron Down -	44 23 31,5	—0,32	44 23 31	
		180 0 1,5			
	Tregarron Down from { Aberystwith				87594,4
	Tregarron Down from { Plynlimmon				86401,7
CLIX.	Aberystwith - -	45 36 55	—0,31	45 36 54	
	Tregarron Down -	59 51 8	—0,35	59 51 6	
	Talsarn - -	74 32 1,5	—0,46	74 32 0	
		180 0 4,5			
	Talsarn from { Aberystwith -				78591,5
	Talsarn from { Tregarron Down				64952*
CLX.	Plynlimmon - -	87 12 51	—0,75	87 12 50,25	
	Llandinam Mountain	49 3 8	—0,36	49 3 7,5	
	Tregarron Down -	43 44 2	—0,33	43 44 2,25	
		180 0 1			
	Tregarron Down from { Plynlimmon - -				86411,3
	Tregarron Down from { Llandinam Mountain				114270,5
CLXI.	Llandinam Mountain	49 37 26,5	—1,38	49 37 25	
	Tregarron Down -	96 31 45	—2,05	96 31 43	
	Capellante - -	. . .		33 50 52	
	Capellante from { Llandinam Mountain				203827,2
	Capellante from { Tregarron Down -				156290,2

The angle at Stow Hill, between Llandinam Mountain and Cradle Mountain, is 91° 58′ 6″. The distances from Stow Hill to those stations are 98832,9 feet and 152928,4 feet respectively. From these data, we get 184914,3 feet for the distance between Llandinam Mountain and Cradle Mountain, and 55° 44′ 40″ for the angle at the former station. The observed angle at Llandinam Mountain between Stow Hill and Capellante is 82° 7′ 18″: from which, subtracting 55° 44′ 40″, we get 26° 22′ 38″ for the angle between Capellante and Cradle Mountain. This angle, with the distances 184914,3 feet and 203827,2 feet, give 90585,6 feet for the distance from Cradle Mountain to Capellante.

Distance from Mynydd Mane to Llangeinor Mountain 114330,3 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXII.	Mynydd Mane	41 35 36,25	—0,6	41 35 35,75	
	Llangeinor Mountain	71 54 47,5	—0,81	71 54 46,75	
	Capellante	. . .		66 29 37,5	
	Capellante from Mynydd Mane				118515,7
	Capellante from Llangeinor Mountain				82765

The observed angle at Mynydd Mane, between Cradle Mountain and Capellante, is 47° 47′ 3″, and the distances from Mynydd Mane to those stations 102023,4 feet and 118515,7 feet respectively. Hence we find the distance from Capellante to Cradle Mountain 90585,8 feet: The previous determination is 90585,6 feet. The angle at Llangeinor Mountain is 31° 1′ 40″. The distances of that station from Trecasle Beacon and Capellante are 93195,7 feet and 82765 feet. This angle and those sides give 48125,8 feet for the distance between the latter stations.

ART. VII. *Calculation of the Sides of the principal Triangles proceeding from the northern Parts of Wales and Cheshire, through Lancashire and the northern Parts of Derbyshire into Yorkshire.*

Distance from Llanelian Mountain to Cyrn y Brain Mountain 145773,8 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
CLXIII.	Llanelian Mountain	55 42 37,75	—1,9	55 42 35,75	
	Cyrn y Brain Mountain	86 53 48	—4,48	86 53 43,5	
	Billinge Beacon	. . .		37 23 40,75	
	Billinge Beacon from Llanelian Mountain				239683
	Billinge Beacon from Cyrn y Brain Mountain				198316,3

Cyrn y Brain Mountain from Delamere Forest 126431,6 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXIV.	Cyrn y Brain Mountain	27 41 46,75	−0,12	27 41 46,5	
	Delamere Forest -	118 4 28	−2,7	118 4 25,25	
	Billinge Beacon - -	34 13 47,75	+0,5	34 13 48,25	
		180 0 2,5			
	Billinge Beacon from { Cyrn y Brain Mountain				198315,8*
	{ Delamere Forest -				104465,1
	Delamere Forest from Garreg Mountain 137294 feet.				
CLXV.	Delamere Forest -	74 56 56	−1,26	74 56 54,75	
	Garreg Mountain -	42 28 45,5	−0,92	42 28 44,5	
	Billinge Beacon -	. . .		62 34 28,75	
	Billinge Beacon from { Delamere Forest -				104462
	{ Garreg Mountain -				149374,3
	Mean distance from Delamere Forest to Billinge Beacon 104463,5 feet.				
CLXVI.	Heswell Hill - -	61 10 55,75	−0,62	61 10 55,25	
	Billinge Beacon -	56 47 7,25	−0,69	56 47 6,5	
	Delamere Forest -	. . .		62 1 58,25	
	Heswell Hill from { Delamere Forest				99750,3*
	{ Billinge Beacon				105305,7*
CXLVII.	Delamere Forest -	56 2 30	−0,76	56 2 29,25	
	Heswell Hill - -	74 28 39,5	−0,96	74 28 38,5	
	Cyrn y Brain Mountain	. . .		49 28 52,25	
	Heswell Hill from { Delamere Forest - -				99750,8*
	{ Cyrn y Brain Mountain -				108837,6

The distances from Cyrn y Brain Mountain to Heswell Hill and Garreg Mountain are 108837,6 feet and 97450 feet. The included angle at Cyrn y Brain Mountain is 24° 54′ 22″. These data give 45852,5 feet for the distance between Garreg Mountain and Heswell Hill, which distance is here found, as the same will be used in fixing the situations of several interior points.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXVIII.	Billinge Beacon -	24 5 16,25	+0,06	24 5 16,25	
	Belle-field Hill - -	126 53 18,25	−0,79	126 52 17,5	
	Delamere Forest -	29 1 26,25		29 1 26,25	
		180 0 0,75			
	Belle-field Hill from { Delamere Forest				53307,1
	{ Billinge Beacon				63369,2
CLXIX	Billinge Beacon - -	80 52 23,5	−0,6	80 52 23	
	Belle-field Hill - -	65 49 38,5	−0,47	65 49 38	
	Heswell Hill - - -	. . .		33 17 59	
	Heswell Hill from { Billinge Beacon -				105301,3*
	{ Belle-field Hill -				113961,3
CLXX.	Delamere Forest -	114 8 32	−2,09	114 8 30	
	Billinge Beacon - -	34 1 8,5	−0,17	34 1 8,25	
	Mow Copt - -	. . .		31 50 21,75	
	Mow Copt from { Delamere Forest				110785,8
	{ Billinge Beacon				180701

The distance from Delamere Forest to Mow Copt, as formerly found, is 110780,5 feet. The last triangle being recomputed, and the mean distance from Delamere Forest to Mow Copt, viz. 110783,1 feet being taken as its base, we get 180696,4 feet for the distance between Billinge Beacon and Mow Copt.

CLXXI	Billinge Beacon -	83 9 46,75	−2,09	83 9 44,75	
	Wittle Hill - -	62 46 19	−1,4	62 46 17,5	
	Mow Copt - -	. . .		34 3 57,75	
	Wittle Hill from { Billinge Beacon				113830,4
	{ Mow Copt -				201769,4

Mean distance from Billinge Beacon to Heswell Hill 105303,5 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXII.	Billinge Beacon -	62 54 17,75	—0,25	62 54 19,75	
	Heswell Hill -	26 17 30,25	—0,25	26 17 30	
	Go Hill - -	90 48 10,75	—0,52	90 48 10,25	
		179 59 58,75			
	Go Hill from { Billinge Beacon -				46647,8
	Heswell Hill -				93756,3
CLXXIII.	Billinge Beacon -	108 16 15,25	—0,48	108 16 14,75	
	Go Hill -	41 51 23,75	—0,17	41 51 23,5	
	Rivington Hill -	. . .		29 52 21,75	
	Rivington Hill from { Billinge Beacon				62493,7*
	Go Hill - -				88934,6
CLXXIV.	Billinge Beacon -	107 57 2,75	—0,63	107 57 2	
	Belle-field Hill - -	35 44 1	—0,12	35 44 1	
	Rivington Hill -	. . .		36 18 57	
	Rivington Hill from { Billinge Beacon				62489,9*
	Belle-field Hill				101791,6
CLXXV.	Billinge Beacon -	71 42 21	—0,39	71 42 20,5	
	Go Hill - -	90 14 44,75	—0,78	90 14 44	
	Bleasdale Forest -	. . .		18 2 55,5	
	Bleasdale Forest from { Billinge Beacon				150560,2
	Go Hill - -				142951,6
CLXXVI.	Billinge Beacon -	51 25 20,25	—0,88	51 25 19,25	
	Wittle Hill - -	80 23 7,5	—1,34	80 23 6,25	
	Bleasdale Forest -	. . .		48 11 34,5	
	Wittle Hill from { Billinge Beacon				113825,5*
	Bleasdale Forest				119379

Mean distance from Billinge Beacon to Rivington Hill 62491,8 feet.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXVII.	Billinge Beacon -	14 51 26	+0,42	14 51 26,5	
	Wittle Hill - -	16 41 45	+0,45	6 41 45,5	
	Rivington Hill -	. . .		148 26 48	
	Wittle Hill from { Billinge Beacon -				113826,1*
	Wittle Hill from { Rivington Hill -				55774,9

From the triangle Billinge Beacon, Mow Copt, and Wittle Hill, recomputed with 113827,4 feet, the mean distance from Wittle Hill to Billinge Beacon, we get 201764,2 feet for the mean distance between Wittle Hill and Mow Copt to be used as the base in the following triangle.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
CLXXVIII.	Wittle Hill - -	20 22 26,75	−0,61	20 22 26,25	
	Axedge - -	103 0 32	−1,92	103 0 30	
	Mow Copt - -	. . .		56 37 3,75	
	Axedge from { Wittle Hill -				172914,2
	Axedge from { Mow Copt - -				72093,5
CLXXIX.	Weaver Hill - -	50 55 54	−0,39	50 55 53,75	
	Axedge - -	67 17 56	−0,45	67 17 55,5	
	Mow Copt - -	. . .		61 46 10,75	
	Weaver Hill from { Mow Copt -				85663,2*
	Weaver Hill from { Axedge -				81811,8*

The distance from Weaver Hill to Mow Copt, as found in the triangle Weaver Hill, Ashley Heath, Mow Copt, is 85668,3 feet, and by the above 85663,2 feet; the mean of which is 85665,6 feet, which used in computing the triangles, Mow Copt, Weaver Hill, and Ashley Heath; and Ashley Heath, Weaver Hill, and Castle Ring gives 114144,8 feet for the distance between Weaver Hill and Castle Ring, a determination altogether depending on the recently measured base line. This mean distance differs only $\frac{7}{10}$ths of a foot from that found by the series of triangles carried on from Misterton Carr.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXX.	Wittle Hill - -	37 7 29,5	−0,46	37 7 29	
	Axedge - -	30 42 14	+0,19	30 42 14	
	Holme Moss - -	. . .		112 10 17	
	*Holme Moss from Wittle Hill -				95339,7
	Holme Moss from Axedge -				112695,5

The sides Orpit Heights and Hathersage, and Orpit Heights and Weaver Hill, viz. 101660,3 feet, and 71095,7 feet, with their included angle 97° 49′ 56″, give 131754,5 feet for the distance between Hathersage and Weaver Hill. The angles at Weaver Hill and Hathersage are then found to be 49° 51′ 10″, and 32° 18′ 54″ respectively.

CLXXXI.	Hathersage - -	67 29 48,5		67 29 47,5	
	Weaver Hill -	23 28 15		23 28 14,5	
	Lord's Seat - -	89 1 59		89 1 58	
		180 0 0,25			
	Lord's Seat from Hathersage -				52482,6
	Lord's Seat from Weaver Hill -				121740
CLXXXII.	Hathersage - -	30 12 46		30 12 46	
	Lord's Seat -	117 19 51		117 19 51	
	Axedge - -	. . .		32 27 23	
	Axedge from Hathersage - -				86878,2
	Axedge from Lord's Seat -				49212,5
CLXXXIII	Boulsworth Hill -	76 12 12,75	−0,75	76 12 12	
	Wittle Hill - -	72 3 55	−0,29	72 3 54,75	
	Bleasdale Forest -	. . .		31 43 53,25	
	Boulsworth Hill from Wittle Hill -				64650,8
	Boulsworth Hill from Bleasdale Forest				116951,5

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXXIV.	Boulsworth Hill -	45 51 56,5	−0,81	45 51 55,75	
	Ingleborough - -	54 11 29,75	−0,82	54 11 29	
	Bleasdale Forest -	. . .		79 56 35,25	
	Ingleborough from { Boulsworth Hill -				141995
	Bleasdale Forest -				103501,1
CLXXXV.	Wittle Hill - -	37 17 23	−0,18	37 17 22,75	
	Boulsworth Hill -	82 41 17,5	−0,29	82 41 17,25	
	Pendle Hill - -	. . .		60 1 20	
	Pendle Hill from { Wittle Hill -				74028,7
	Boulsworth Hill				45217,6
CLXXXVI.	Boulsworth Hill -	39 22 48,25	+0,4	39 22 48,75	
	Ingleborough - -	15 0 12,5	−0,03	15 0 12,5	
	Pendle Hill - -	. . .		125 36 58,75	
	Ingleborough from { Boulsworth Hill -				141993,6
	Pendle Hill - -				110820,7
CLXXXVII.	Boulsworth Hill -	127 47 26,75	−0,77	127 47 26	
	Rumbles Moor - -	20 24 6	+0,04	20 24 6	
	Pendle Hill - -	. . .		31 48 28	
	Rumbles Moor from { Boulsworth Hill -				68367,6
	Pendle Hill				102505,8
CLXXXVIII.	Ingleborough - -	62 41 7,75	−0,77	62 41 7	
	Boulsworth Hill -	36 31 3	−0,68	36 31 2,25	
	Great Whernside -	. . .		80 47 50,75	
	Great Whernside from { Ingleborough -				85598
	Boulsworth Hill				127807,4

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CLXXXIX	Boulsworth Hill -	51 53 35,75	−0,34	51 53 35,5	
	Rumbles Moor -	95 57 50,25	−0,93	95 57 49,25	
	Great Whernside -	. . .		32 8 35,25	
	Rumbles Moor from { Boulsworth Hill -				68368,2*
	{ Great Whernside -				101114
CXC.	Wittle Hill - -	87 16 40,75	−0,63	87 16 40	
	Boulsworth Hill -	57 44 11,75	−0,48	57 44 11	
	Holme Moss -	. . .		34 59 9	
	Holme Moss from { Wittle Hill -				95345,9
	{ Boulsworth Hill				112627,8
CXCI.	Boulsworth Hill -	91 47 1,25	−0,95	91 47 0,25	
	Rumbles Moor -	57 26 32	−0,44	57 26 31,5	
	Holme Moss - -	. . .		30 46 28,25	
	Rumbles Moor from { Boulsworth Hill				68372,9*
	{ Holme Moss -				133564,6
CXCII.	Rumbles Moor -	72 16 31,75	−1,35	72 16 30,25	
	Ledstone Beacon -	58 20 17,5	−1,11	58 20 16,5	
	Holme Moss - -	. . .		49 23 13,25	
	Ledstone Beacon from { Rumbles Moor				119122,5
	{ Holme Moss -				149471,8
CXCIII.	Ledstone Beacon -	23 7 23,5	+0,4	23 7 24	
	Staincross Heights -	135 5 7	−0,71	135 5 6,25	
	Holme Moss - -	. . .		21 47 29,75	
	Staincross Heights from { Holme Moss -				83136,9
	{ Ledstone Beacon				78589,6

Clifton Beacon from Hathersage 92227,2 feet. Phil. Trans. 1803, p. 432.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXCIV.	Clifton Beacon -	24 16 10	—0,18	24 16 9,75	
	Hathersage - -	64 19 9,75	—0,18	64 19 9,5	
	Bradfield Point -	. . .		91 24 40,75	
	Bradfield Point from { Clifton Beacon				83142,4
	Hathersage -				37919,4
CXCV.	Clifton Beacon -	41 38 23,5	—0,29	41 38 23,25	
	Staincross Heights -	72 8 43,5	—0,39	72 8 43	
	Bradfield Point -	. . .		66 12 53,75	
	Staincross Heights from { Clifton Beacon -				79930,4
	Bradfield Point -				58039
CXCVI.	Clifton Beacon -	65 54 33,5	—0,56	65 54 33	
	Hathersage - -	50 45 26,75	—0,49	50 45 26,25	
	Staincross Heights -	. . .		63 20 0,75	
	Staincross Heights from { Clifton Beacon				79929,2
	Hathersage -				94215,5

Clifton Beacon from Gringley Beacon 75068,1. Phil. Trans. 1803, p. 431.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
CXCVII.	Clifton Beacon -	46 29 0,25	—0,34	46 29 0	
	Crowle Beacon - -	46 54 35,5	—0,34	46 54 35	
	Gringley Beacon -	. . .		86 36 25	
	Crowle Beacon from { Clifton Beacon				102613,6
	Gringley Beacon				74543,4
CXCVIII.	Clifton Beacon -	32 31 5,5	—0,39	32 31 5	
	Crowle Beacon - -	92 5 22	—0,84	92 5 21	
	Hemingbrough Spire	. . .		55 23 34	
	Hemingbrough Spire from { Clifton Beacon				124589,7
	Crowle Beacon				67019,7

No. of Triangles.	Names of Stations.	Observed Angles.	Diff	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CXCIX.	Crowle Beacon -	67 54 2,25	−0,45	67 54 1,75	
	Hunsley Beacon -	44 58 20,25	−0,37	44 58 20	
	Hemingbrough Spire	. . .		67 7 38,25	
	Hunsley Beacon from { Crowle Beacon -				87370
	Hemingbrough Spire				87859,4
CC.	Hunsley Beacon -	68 22 50,25	−0,58	68 22 49,75	
	Wilton Beacon -	58 16 37,25	−0,51	58 16 36,75	
	Hemingbrough Spire -	. . .		53 20 33,5	
	Wilton Beacon from { Hunsley Beacon -				82862,3
	Hemingbrough Spire				96024,9
CCI	Wilton Beacon -	103 58 59,75	−1,92	103 58 58	
	Hambleton Down -	30 46 30,5	−0,5	30 46 30	
	Hemingbrough Spire -	. . .		45 14 32	
	Hambleton Down from { Wilton Beacon -				133262,7
	Hemingbrough Spire				182109,2
CCII	Wilton Beacon -	126 5 51,5	−3,84	126 5 47,75	
	Botton Head - -	19 20 11,5	+0,05	19 20 11,5	
	Hemingbrough Spire	. . .		34 34 0,75	
	Botton Head from { Wilton Beacon -				164538,6
	Hemingbrough Spire				234330,1
CCIII.	Hambleton Down -	107 11 36,5	−1,44	107 11 35	
	Wilton Beacon - -	22 6 51,5	−0,37	22 6 51	
	Botton Head -	50 41 34,5	−0,12	50 41 34	
		180 0 2,5			
	Botton Head from { Hambleton Down				64835,5
	Wilton Beacon -				164531,2

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCIV.	Botton Head - -	62 15 1	+0,1	62 15 2	
	Wilton Beacon -	11 53 28,5	—0,3	11 23 29	
	Loosehoe Moor -	105 51 29,5	—0,94	105 51 29	
		179 59 59			
	Loosehoe Moor from Botton Head				35244,2
	Loosehoe Moor from Wilton Beacon				151369,7
CCV.	Botton Head - -	51 0 23	—0,07	51 0 23	
	Loosehoe Moor -	102 46 14	—0,33	102 46 14	
	Easington Heights -	26 13 22,5	—0,1	26 13 23	
		179 59 59,5			
	Easington Heights from Botton Head				77788,9
	Easington Heights from Loosehoe Moor				61992,3
CCVI.	Botton Head - -	100 48 4,5	—0,31	100 48 4	
	Loosehoe Moor -	50 4 54	—0,07	50 4 54	
	Barnaby Moor Pole -	. . .		29 7 2	
	Barnaby Moor Pole from Botton Head				55550,7
	Barnaby Moor Pole from Loosehoe Moor				71146,5
CCVII.	Botton Head - -	49 47 41,25	—0,22	49 47 41	
	Easington Heights -	45 20 6,75	—0,21	45 20 6,5	
	Barnaby Moor Pole -	. . .		84 52 12,5	
	Barnaby Moor Pole from Botton Head -				55548,3
	Barnaby Moor Pole from Easington Heights				59649,7
CCVIII.	Easington Heights -	5 50 55		5 50 55	
	Burleigh Moor - -	160 23 52,5		160 23 52	
	Barnaby Moor Pole -	. . .		13 45 13	
	Burleigh Moor from Easington Heights				42270,7
	Burleigh Moor from Barnaby Moor Pole				18117,6

The distance from Easington Heights to Botton Head, and Easington Heights to Burleigh Moor, with the included angle at Easington Heights 51° 11′ 2″, give 60956,5 for the distance between Botton Head and Burleigh Moor.

Rumbles Moor from Ledstone Beacon 119122,5 feet.

No of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
ccix.	Rumbles Moor -	67 1 23,75	—1,57	67 1 23,25	
	Ledstone Beacon -	73 49 9,25	—1,76	73 49 8,75	
	Hambleton Down -	39 9 28,5	—1,3	39 9 28	
		180 0 1,5			
	Hambleton Down from { Ledstone Beacon				173679,7
	{ Rumbles Moor -				181173,7
ccx	Ledstone Beacon -	84 34 0,75	—0,74	84 34 0	
	Hambleton Down -	23 44 1,25	—0,76	23 44 0,5	
	Hemingbrough Spire -	. . .		71 41 59,5	
	Hemingbrough Spire from { Ledstone Beacon -				73626,8
	{ Hambleton Down				182109,8

Ledstone Beacon from Staincross Heights 78589,6 feet.

No of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
ccxi.	Ledstone Beacon -	120 9 10,75	—1,16	120 9 9,75	
	Staincross Heights -	28 50 54,75	—0,01	28 50 54,75	
	Hemingbrough Spire -	. . .		30 59 55,5	
	Hemingbrough Spire from { Ledstone Beacon				73626,7
	{ Staincross Heights				131947,6

Rumbles Moor from Great Whernside 101114 feet.

No of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
ccxii.	Rumbles Moor -	67 17 44	—1,26	67 17 42,75	
	Hambleton Down -	33 16 29,25	—1,05	33 16 28,25	
	Great Whernside -	. . .		79 25 49	
	Hambleton Down from { Rumbles Moor				181168,6
	{ Great Whernside				170013,8

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXIII.	Hambleton Down - -	82 56 29,5	−0,26	82 56 29,25	
	Black Hambleton Down	89 14 35,75	−0,43	89 14 35,25	
	Great Whernside -	. . .		7 48 55,5	
	Black Hambleton Down from { Hambleton Down				23120,9*
	Great Whernside				148740,1
CCXIV.	Hambleton Down -	42 55 24,5		42 55 24,5	
	Black Hambleton Down	118 53 4		118 53 4	
	Botton Head - - -	. . .		18 11 31,5	
	Black Hambleton Down from { Hambleton Down				23117,9*
	Botton Head -				50427,7
CCXXV.	Rumbles Moor -	6 11 6,75	−0,14	6 11 6,75	
	Hambleton Down -	116 12 57,25	−1,49	116 12 55,5	
	Black Hambleton Down	57 35 59,25	+0,77	57 35 57,75	
		180 0 3,25			
	Black Hambleton Down from { Rumbles Moor -				192504,6*
	Hambleton Down				23119*
CCXVI.	Rumbles Moor -	73 12 30	−1,88	73 12 28	
	Ledstone Beacon -	70 59 12	−1,81	70 59 10,25	
	Black Hambleton Down	. . .		35 48 21,75	
	Black Hambleton Down from { Rumbles Moor -				192504*
	Ledstone Beacon				194930,8

ART. VIII. *Triangles for ascertaining the Situation of the Great Tower on York Minster.*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXVII.	Wilton Beacon -	75 45 15		75 45 15	
	Botton Head - -	24 40 15		24 40 15	
	York Minster -	. . .		79 34 30	
	York Minster from { Wilton Beacon				69830,4'
	York Minster from { Botton Head -				162152
CCXVIII.	Wilton Beacon -	53 38 13,5		53 38 13,5	
	Hambleton Down -	31 28 24		31 28 24	
	York Minster - -	. . .		94 53 32,5	
	York Minster from { Wilton Beacon -				69830,8*
	York Minster from { Hambleton Down				107705,4*
CCXIX.	Hambleton Down -	62 11 41		62 11 41	
	Rumbles Moor -	36 2 20,25		36 2 20,25	
	York Minster - -	. . .		81 45 58,75	
	York Minster from { Hambleton Down				107699,6*
	York Minster from { Rumbles Moor -				161921,9*
CCXX.	Rumbles Moor -	30 59 3		30 59 3	
	Ledstone Beacon -	103 17 41,75		103 17 41,75	
	York Minster - -	. . .		45 43 15,25	
	York Minster from { Rumbles Moor -				161925*
	York Minster from { Ledstone Beacon -				85654,8

ART. IX. *Calculation of the Sides of the principal Triangles proceeding from Lancashire and Yorkshire through Westmoreland, Cumberland, Durham, and Northumberland, and a part of the South of Scotland.*

Go Hill from Bleasdale Forest 142951,6 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″			Feet.
CCXXI.	Go Hill -	41 20 5	−0,61	41 20 4,5	
	Beryl Hill -	91 29 55,5	−1,26	91 29 54,25	
	Bleasdale Forest			47 10 1,25	
			Beryl Hill from { Go Hill -		104867,8
			Bleasdale Forest		94445,5
CCXXII.	Go Hill -	131 34 49,5	−1,49	131 34 48	
	Beryl Hill -	14 24 30,75	+0,06	14 24 30,75	
	Billinge Beacon			34 0 41,25	
			Beryl Hill from Billinge Beacon		140239,8

Ingleborough Hill from Bleasdale Forest 103501,1 feet.

CCXXIII.	Ingleborough Hill -	71 49 43,5	-2,01	71 49 41,5	
	Black Comb - -	30 5 35	-0,13	30 5 34,75	
	Bleasdale Forest -			78 4 43,75	
			Black Comb from { Ingleborough Hill		201970,5
			Bleasdale Forest -		196127

The sides Bleasdale Forest to Black Comb 196127 feet, and Bleasdale Forest to Beryl Hill 94445,5 feet, together with 94° 28′ 38″ the corrected angle at Beryl Hill. give 164674,5 feet for the distance between Beryl Hill and Black Comb.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXXIV.	Ingleborough Hill -	35 15 15,5	−1,08	35 15 14,5	
	Black Comb - -	65 15 43,5	−1,63	65 15 42	
	Helvellin Mountain -	. . .		79 29 3,5	
	Helvellin Mountain from Ingleborough Hill				186568,6
	Helvellin Mountain from Black Comb -				118569,2
CCXXV.	Ingleborough Hill -	61 35 33	−0,51	61 35 32	
	Black Comb - -	22 28 19	−0,78	22 28 18	
	The Calf - -	95 56 12,25	−2,04	95 56 10	
		180 0 4,25			
	The Calf from Ingleborough Hill				77614,6
	The Calf from Black Comb -				178607,5*
CCXXVI.	Black Comb - -	42 47 24,5	−0,89	42 47 23,5	
	The Calf - -	41 19 33	−0,75	41 19 32,25	
	Helvellin Mountain -	. . .		95 53 4,25	
	The Calf from Black Comb -				178612,2*
	The Calf from Helvellin Mountain				121976
CCXXVII.	The Calf - -	63 59 16	−1,01	63 59 15	
	Cross Fell -	57 48 24,5	−1,02	57 48 23,5	
	Helvellin Mountain -	. . .		58 12 21,5	
	Cross Fell from The Calf - -				122505,3
	Cross Fell from Helvellin Mountain				129531,8
CCXXVIII.	Cross Fell - -	26 35 21,5	−0,44	26 35 21	
	The Calf - -	86 13 39,25	−0,76	86 13 38,5	
	Shunnor Fell - -	. . .		67 11 0,5	
	Shunnor Fell from Cross Fell -				132616,9
	Shunnor Fell from The Calf -				59486,9*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXXIX	Ingleborough Hill -	43 31 19	−0,31	43 31 18,75	
	The Calf - -	72 31 16	−0,4	72 31 15,5	
	Shunnor Fell -	. . .		63 57 25,75	
	Shunnor Fell from { Ingleborough Hill				82397
	{ The Calf - -				59487,9*
	Black Hambleton from Great Whernside 168740,1. feet.				
CCXXX.	Black Hambleton.	32 56 51,75	−1,07	32 56 50,75	
	Water Crag - -	62 22 46,5	−1,17	62 22 45,25	
	Great Whernside -	. . .		84 40 24	
	Water Crag from { Black Hambleton -				189621
	{ Great Whernside -				103576,6
CCXXXI	Black Hambleton -	122 11 27,75	−1,95	122 11 26	
	Hambleton Down -	52 16 32	+1,47	52 16 33,5	
	Water Crag - -	. . .		5 32 0,5	
	Hambleton Down from Water Crag -				202882,7
CCXXXII.	Black Hambleton -	46 13 27,25	−1,68	46 13 25	
	Water Crag - -	66 3 11,5	−1,72	66 3 9,5	
	Brandon Down -	67 43 27,5	−1,75	67 43 25,5	
		180 0 6,25			
	Brandon Down from { Black Hambleton				187275,6
	{ Water Crag -				147957,9
CCXXXIII	Brandon Down -	57 0 24,25	−0,31	57 0 25	
	Water Crag - -	25 0 11,75	−0,38	25 0 12	
	Collier Law -	97 59 21	−1,12	97 59 23	
		179 59 57			
	Collier Law from { Brandon Down -				63150,5
	{ Water Crag				125314,1

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXXXIV.	Water Crag - -	91 3 23,25	—2,81	91 3 21	
	Black Hambleton -	33 8 18,75	—1,29	33 8 17,5	
	Collier Law - -	55 48 22,5	—1,37	55 48 21,5	
		180 0 4,5			
	Black Hambleton from Collier Law				229210,8
CCXXXV.	Water Crag - -	52 19 53,5	—0,71	52 19 52,5	
	Collier Law - -	64 2 0	—0,99	64 1 59	
	Cross Fell - -	63 38 9,5	—1	63 38 8,5	
		180 0 3			
	Cross Fell from Water Crag -				125741,2
	Cross Fell from Collier Law -				110708,2
CCXXXVI.	Water Crag - -	93 12 26,75	—0,47	93 12 26,25	
	Cross Fell - -	15 35 36	—0,26	15 35 35,75	
	Shunnor Fell - -	. . .		71 11 58	
	Shunnor Fell from Water Crag				35705,3
	Shunnor Fell from Cross Fell -				132620,7*

The distance from Shunnor Fell to Great Whernside is found, by means of the included angle at Ingleborough Hill, viz. 66° 10′ 48″, and the distances already given from that station to each of them, to be 91757,1 feet, and the same distance found by means of the included angle at Water Crag, viz. 61° 1′ 28″, and their respective distances from that station is 91759,8 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
CCXXXVII.	Cross Fell - -	99 59 22	—1,94	99 59 20	
	Water Crag - -	40 43 16	—0,74	40 43 15,25	
	Helvellin Mountain	. . .		39 17 24,75	
	Helvellin Mountain from Water Crag				195556,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXXXVIII	Black Comb - -	58 57 16,5	−0,48	58 57 16	
	The Calf - -	23 49 59,75	−0,63	23 49 59	
	Sca-Fell, Lower Top	. . .		97 12 45	
	Sca-Fell, Lower Top, from { Black Comb				72747,1
	{ The Calf -				154245,8
CCXXXIX.	Black Comb - -	38 18 57	−0,26	38 18 56,75	
	Dent Hill - -	49 14 1,5	−0,3	49 14 1,25	
	Sca-Fell, Lower Top	. . .		92 27 2	
	Dent Hill from { Black Comb - -				95963,3
	{ Sca-Fell, Lower Top				59551,2
CCXL.	Cross Fell - -	49 49 57,75	−0,87	49 49 57	
	Crif-Fell - -	29 52 19	−1,25	29 52 17,75	
	Helvellin Mountain	. . .		100 17 45,25	
	Crif-Fell from { Cross Fell - -				255886,1
	{ Helvellin Mountain				198738,6
CCXLI.	Cross Fell - -	87 59 10,5	−0,59	87 59 10	
	The Calf - -	45 37 1	−0,68	45 37 0,25	
	High Pike - -	. . .		46 23 49,75	
	High Pike from { Cross Fell -				120904,7
	{ The Calf -				169069,5
CCXLII.	Cross Fell - -	30 10 43	−0,3	30 10 42,75	
	High Pike - -	82 11 30	−0,79	82 11 29,25	
	Helvellin Mountain -	. . .		67 37 48	
	High Pike from { Cross Fell - -				120905,1
	{ Helvellin Mountain				65724,6

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXLIII.	Cross Fell - -	64 8 15,5	—1,34	64 8 14,25	
	High Pike - -	85 1 55,5	—2,56	85 1 53	
	Wisp Hill - -	. . .		30 49 52,75	
	Wisp Hill from Cross Fell -				235019,8
	Wisp Hill from High Pike -				212278,4
CCXLIV	Cross Fell - -	44 29 1	—2,87	44 28 58	
	Crif-Fell - -	61 49 36	—3,25	61 49 32,75	
	Wisp Hill - -	73 41 30	—3,7	73 41 29,25	
		180 0 7			
	Wisp Hill from Cross Fell -				235024,3
	Wisp Hill from Crif-Fell - -				186814,9
CCXLV.	Crif Fell - -	77 48 9,75	—4,51	77 48 5,25	
	High Pike - -	59 20 15	+2,52	59 20 12,5	
	Wisp Hill - -	. . .		42 51 42,25	
	High Pike from Crif-Fell -				147733,5
	High Pike from Wisp Hill - -				212277,5
CCXLVI.	Crif-Fell - -	26 36 11,25	+0,34	26 36 11,5	
	Cross Fell - -	27 42 23,5	+0,38	27 42 24	
	Skiddaw - -	. . .		125 41 24,5	
	Skiddaw from Crif-Fell - -				146485,3*
	Skiddaw from Cross Fell -				141086,3
CCXLVII.	Crif-Fell - -	10 37 35	—0,11	10 37 35	
	High Pike - -	82 4 53,75	—0,19	82 4 53,5	
	Skiddaw - -	. . .		87 17 31,5	
	Skiddaw from Crif-Fell - -				146488,5*
	Skiddaw from High Pike -				27273,1

Mean distance from Crif-Fell to Skiddaw 146486,9 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCXLVIII.	Crif-Fell - -	33 24 18,5	—0,75	33 24 17,75	
	Dent Hill - -	63 34 19,25	—0,86	63 34 18,5	
	Skiddaw - -	. . .		83 1 23,75	
	Dent Hill from { Crif-Fell - -				162371,1
	{ Skiddaw -				90060,7
CCXLIX.	Crif-Fell - -	38 11 48	—0,83	38 11 47,25	
	Scilly Bank - -	74 48 14,5	—0,82	74 48 13,75	
	Skiddaw - -	. . .		66 59 59	
	Scilly Bank from { Crif-Fell -				139727,3
	{ Skiddaw -				93863,6
CCL.	Dent Hill - -	90 20 26		90 20 26	
	Scilly Bank - -	73 38 6		73 38 6	
	Skiddaw - -	. . .		16 1 28	
	Scilly Bank from { Dent Hill - -				25910,8
	{ Skiddaw -				93861,6

The sides Dent Hill from Black Comb 95963,3 feet, and Dent Hill from Skiddaw 90060,7 feet, with 106° 12′ 0″ their included angle at Dent Hill, give 148802,7 feet for the distance between Black Comb and Skiddaw, on which the following triangle for finding the distance between Black Comb and Scilly Bank depends.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
CCLI.	Black Comb - -			39 1 48	
	Skiddaw - -			54 17 23	
	Scilly Bank - -			86 40 49	
	Black Comb from Scilly Bank				121027,7

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLII.	Black Comb - -	65 58 6	−1,2	65 58 4,75	
	Dent Hill - -	89 8 10	−2,28	89 8 7,75	
	North Berule (Isle of Man) - -	. . .		24 53 47,5	
		North Berule from { Black Comb			227925,6
		{ Dent Hill -			208192,2
CCLIII.	Black Comb - -	62 28 25	−1,55	62 28 23,5	
	Scilly Bank - -	85 33 51	−2,62	85 33 48,25	
	North Berule -	. . .		31 57 48,25	
		North Berule from { Black Comb			227937,6
		{ Scilly Bank -			202741,4
*CCLIV.	Black Comb - -	64 57 14	−1,67	64 57 12,25	
	Scilly Bank - -	85 10 38	−2,79	85 10 35,25	
	Snea Fell - -	. . .		29 52 12,5	
		Snea Fell from { Black Comb -			242149,4
		{ Scilly Bank - -			220157,1
CCLV.	Collier Law - -	95 1 11,25	−4,61	95 1 6,5	
	Cross Fell - -	62 47 32,5	−0,61	62 47 32	
	The Cheviot - -	. . .		22 11 21,5	
		The Cheviot from { Collier Law			260702,2
		{ Cross Fell -			292012,7

* When the party were on Crif-Fell, Snea Fell in the Isle of Man was once observed, but the object was not, at that time, sufficiently distinct to admit of a very accurate observation, and no opportunity offered afterwards of verifying the one then made. By this observation, the angle between Helvellin Mountain and Snea Fell is 76° 37′ 34″, which, with the data already given, makes the distance from Crif-Fell to Snea Fell 303380,3 feet, and from Black Comb to Snea Fell 242144,7 feet.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLVI.	Cross Fell - -	39 15 48,75	−2,64	39 15 46	
	Wisp Hill -	87 14 9	−4,84	87 14 4	
	The Cheviot - -	. . .		53 30 10	
	Wisp Hill from { Cross Fell -				235018,6
	{ The Cheviot -				185023,9
CCLVII.	Wisp Hill - -	41 42 33,75	−2,03	41 42 31,75	
	Crif-Fell Hill - -	44 6 39,75	−0,87	44 6 39	
	Queensberry Hill - -	. . .		94 10 49,25	
	Queensberry Hill from { Wisp Hill -				130379
	{ Crif-Fell Hill				124628
CCLVIII.	Wisp Hill - -	50 36 16	−2,08	50 36 14	
	Sayrs Law - -	55 50 18,25	−2,21	55 50 16	
	The Cheviot -	. . .		73 33 30	
	Sayrs Law from { Wisp Hill -				214463,4
	{ The Cheviot -				172798,4
CCLIX.	Wisp Hill - -	39 42 52,5	−0,41	39 42 52	
	Sayrs Law - -	30 1 39,5	−0,48	30 1 39	
	The Dunrigs -	. . .		110 15 29	
	The Dunrigs from { Wisp Hill -				114397,1
	{ Sayrs Law -				146069,4
CCLX.	Black Hambleton -	72 42 6	−0,27	72 42 5,75	
	Brandon Down -	15 36 50	−0,54	15 36 49,5	
	Botton Head - -	. . .		91 41 4,75	
	Botton Head from { Black Hambleton				50427,2
	{ Brandon Down -				178882,3

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXI.	Brandon Down	77 58 43,75	—0,96	77 58 42,75	
	Wordeslow Hill	81 28 33,75	— ,01	81 28 32,75	
	Botton Head	. . .		20 32 44,5	
	Wordeslow Hill from Brandon Down				63480,7*
	Wordeslow Hill from Botton Head				176913,7
CCLXII.	Botton Head	65 37 33	—0,74	65 37 32,25	
	Easington Heights	88 18 12,25	—1,58	88 18 10,5	
	Wordeslow Hill	. . .		26 4 17,25	
	Easington Heights from Botton Head				77786,5
	Easington Heights from Wordeslow Hill				161215,8
CCLXIII.	Easington Heights	37 7 17	+0,84	37 7 17,75	
	Burleigh Moor	131 33 56	—0,46	131 33 55,5	
	Wordeslow Hill	. . .		11 18 46,75	
	Burleigh Moor from Easington Heights				42268,7
	Burleigh Moor from Wordeslow Hill				130039,1
CCLXIV.	Wordeslow Hill	96 14 3	—1,5	96 14 1,5	
	Burleigh Moor	24 44 28	—0,45	24 44 27,5	
	Brandon Down	59 1 31,5	—0,37	59 1 31	
		180 0 2,5			
	Brandon Down from Wordeslow Hill				63475,5*
	Brandon Down from Burleigh Moor				150771
	Mean distance from Wordeslow Hill to Brandon Down 63478,1 feet.				
CCLXV.	Wordeslow Hill	38 50 58	—0,2	38 50 57,75	
	Brandon Down	81 21 42,75	—0,13	81 21 42,75	
	Pontop Pike	59 47 19,75	—0,16	59 47 19,5	
		180 0 0,5			
	Pontop Pike from Wordeslow Hill				72621,9
	Pontop Pike from Brandon Down				46076,5*

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXVI.	Collier Law - -	44 47 10	−0,14	44 47 11	
	Brandon Down -	60 18 51	−0,18	60 18 52	
	Pontop Pike -	74 53 55,5	−0,23	74 53 57	
		179 59 56,5			
	Pontop Pike from { Collier Law -				56824,6
	Brandon Down				46078,5*
CCLXVII.	Wordeslow Hill -	19 6 42,25	+0,42	19 6 40	
	Brandon Down - -	141 40 31,5	−1,35	141 40 30	
	Collier Law - -	19 12 51	+0,43	19 12 50	
		180 0 4,75			
	Collier Law from Wordeslow Hill				119613
CCLXVIII.	Wordeslow Hill - -	68 16 54	−1,72	68 16 52,75	
	Collier Law - -	75 12 28	−1,97	75 12 26	
	Simonside Hill - -	. . .		36 30 41,25	
	Simonside Hill from { Wordeslow Hill				194372,3
	Collier Law -				186764,7*
CCLXIX.	Cross Fell - -	49 36 25,5	−0,68	49 36 25	
	Collier Law - -	103 33 22,75	−2,93	103 33 20	
	Simonside Hill -	. . .		26 50 15	
	Simonside Hill from { Cross Fell -				238390,7
	Collier Law -				186765*
Mean distance from Collier Law to Simonside Hill 186764,8 feet.					
CCLXX.	Collier Law - -	14 28 51	−0,32	14 28 50,75	
	Rufflaw - - -	103 32 30	−1,4	103 32 28,5	
	Simonside Hill -	. . .		61 58 40,75	
	Rufflaw from { Collier Law -				169584*
	Simonside Hill -				48036,8

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXXI.	Collier Law - -	23 1 6	+0,1	23 1 6	
	Rufflaw - -	124 36 49,75	−7,08	124 36 42,75	
	The Cheviot - -	. . .		32 22 11,25	
	Rufflaw from { Collier Law -				169589*
	The Cheviot -				123862,8
CCLXXII.	Collier Law - -	35 9 21	+0,69	35 9 21,75	
	Rufflaw - - -	14 52 51,5	+0,17	14 52 51,75	
	Pontop Pike - -	. . .		129 57 46,5	
	Pontop Pike from Rufflaw -				127402,4

By using 60° 43′ 36″, the included angle at Collier Law and the distances from that station to Rufflaw and Wordeslow Hill, the distances between those stations is found to be 152413 feet.

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
CCLXXIII.	Rufflaw - -	60 0 5,5	−1,22	60 0 5,25	
	Alnwick Moor - -	40 34 54	−0,18	40 34 53,75	
	Simonside Hill -	. . .		79 25 1	
	Alnwick Moor from { Rufflaw - -				72588,1*
	Simonside Hill				63950,4
CCLXXIV.	Rufflaw - -	38 55 42	+0,36	38 55 42,25	
	Alnwick Moor - -	106 58 56	−0,55	106 58 55,5	
	The Cheviot - -	. . .		34 5 22,25	
	Alnwick Moor from { Rufflaw -				72588,7*
	The Cheviot				81377,4

No. of Triangles	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXXV.	Sayrs Law - -	44 34 27,25	—0,89	44 34 26,25	
	Mordington Hill -	89 34 2,75	—1,75	89 34 1	
	The Cheviot - -	. . .		45 51 32,75	
	Mordington Hill from { Sayrs Law -				124008,6
	{ The Cheviot -				121278,4
CCLXXVI.	Mordington Hill -	32 43 0,25	—0,24	32 43 0	
	Blackheddon - -	117 9 58,25	—1,01	117 9 57,25	
	The Cheviot - -	. . .		30 7 2,75	
	Blackheddon from { Mordington Hill				68399,7*
	{ The Cheviot -				73676,6
CCLXXVII.	Mordington Hill -	122 17 3	—1,91	122 17 1	
	Blackheddon -	37 54 29,25	—0,42	37 54 28,75	
	Sayrs Law - -	. . .		19 48 30,25	
	Blackheddon from { Mordington Hill				68398,3*
	{ Sayrs Law -				170637,4
CCLXXVIII	Blackheddon - -	33 9 8,25	—0,37	33 9 8	
	Lumsdane Hill -	107 25 29,5	—1,79	107 25 27,75	
	Sayrs Law - -	. . .		39 25 24,25	
	Lumsdane Hill from { Blackheddon -				113574,1*
	{ Sayrs Law -				97803,5
CCLXXIX.	Blackheddon - -	112 24 37,25	—1,2	112 24 36	
	Lumsdane Hill -	25 40 44	—0,11	25 40 44	
	The Cheviot - -	. . .		41 54 40	
	Lumsdane Hill from { Blackheddon -				113573
	{ The Cheviot -				157184,9

The distance from Lumsdane Hill to Mordington Hill is discovered to be 45764,1 feet, by using 19° 36′ 54″ the included angle at Sayrs Law with their respective distances from that station.

No. of Triangles.	Names of Stations.	Observed Angles.	Diff.	Angles corrected for Calculation.	Distances.
		° ′ ″	″	° ′ ″	Feet.
CCLXXX	Sayrs Law - -	96 56 7	−1,98	96 56 5	
	Lumsdane Hill - -	52 11 55,5	−0,66	52 11 55	
	Largo Law - -	. . .		30 52 0	
	Largo Law from { Sayrs Law -				150628,1
	Largo Law from { Lumsdane Hill				189240,1
CCLXXXI.	Sayrs Law - -	114 29 4,5	−3,2	114 29 1,25	
	Lumsdane Hill - -	43 48 42	+0,15	43 48 42,25	
	East Lomond Top -	. . .		21 42 16,5	
	East Lomond Top from { Sayrs Law -				183084
	East Lomond Top from { Lumsdane Hill				240679

The sides Alnwick Moor to The Cheviot 81377,4 feet, and Alnwick Moor to Simonside Hill 63950,4 feet, together with 66° 24′ 2″ the included angle at Alnwick Moor gives 80901,8 feet for the distance from The Cheviot to Simonside Hill, and 46° 24′ 56″ for the angle at The Cheviot. The angle at Blackheddon between The Cheviot and Simonside Hill is 34° 20′ 53″, and the distance from that station to The Cheviot is 73676,6 feet, these, with the distance just found, give 130234,2 feet for the distance between Blackheddon and Simonside Hill, and 14° 43′ 58″ for the angle at The Cheviot between those points; whence 68° 19′ 2″ is found to be the angle at The Cheviot between Alnwick Moor and Blackheddon, which with 81377,4 and 73676,6 feet their respective distances from The Cheviot, give 87293,3 feet for their distance from each other.

SECTION THIRD.

ART. I. *Secondary Triangles formed by the intersection of Church Steeples, Light-Houses, Signal Staves, and other remarkable Objects, from the principal Stations.*

Royston from Orwell 43642,8 feet.

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
	° ′ ″	
Royston	16 56 27	155355
Orwell	156 40 20	114316
Ely Minster	. . .	
Royston	21 3 35	74857
Orwell	134 15 40	37560
Great St. Mary's, Cambr.	. . .	
Royston	10 56 3	70300
Orwell	152 17 1	28671
Coton Spire	. . .	
Royston	3 46 48	49738
Orwell	151 17 22	6826
Great Eversden Steeple	. . .	
Royston	31 47 47	23674
Orwell	27 56 22	26624
Melbourne Steeple	. . .	
Royston	39 15 0	71394
Orwell	104 27 19	46648
Lord Osborne's House	. . .	
Royston	78 16 40	32930
Orwell	41 6 24	49042
Headon Steeple	. . .	
Royston	85 25 41	29508
Orwell	35 27 54	50696
Chishall Steeple	. . .	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Royston	3 56 35	37860
Orwell	23 54 36	6423
Orwell Steeple	. . .	
Royston	98 40 27	23644
Orwell	26 20 27	52678
Ashwell Spire	. . .	
Royston	56 13 18	94156
Orwell	96 20 52	78745
Balsham Steeple	. . .	
Royston	20 15 37	28393
Orwell	30 1 59	19644
Meldreth Steeple	. . .	
Royston	16 59 59	15230
Orwell	8 42 21	29417
Bassingbourn Steeple	. . .	
Royston	10 21 4	42358
Orwell	75 27 31	7863
Whimple Ruins	. . .	
Royston	12 56 3	38322
Orwell	93 44 6	10638
Lord Hardwick's Pleasure House	. . .	
Royston	34 5 36	116152
Orwell	128 54 19	83666
Mr. Humphrey's Windmill	. . .	. .

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Royston	33 58 28	114694
Orwell	128 46 0	82202
Swaffham Steeple	. . .	
Royston	110 49 0	20164
Orwell	20 21 9	54192
Peachy's Obelisk	. . .	
Royston	110 24 4	20757
Orwell	20 55 33	54471
Cupola with Vane and Pinnacle	. . .	
Orwell from Maddingly 29796,8 feet.		
Orwell	21 36 30	37568
Maddingly	110 20 55	14756
Great St. Mary's Steeple, Cambridge	. . .	
Orwell	33 0 55	28152
Maddingly	68 1 10	10541
Grantchester Steeple	. . .	
Orwell	20 27 29	37526
Maddingly	112 14 12	141?0
Trinity College, Cambridge	. . .	
Orwell	21 44 30	38090
Maddingly	111 35 28	15174
Trinity Spire, Cambridge	. . .	
Orwell	38 23 25	30162
Maddingly	72 37 13	19822
Trumpington Steeple	. . .	
Orwell	3 35 7	28660
Maddingly	56 20 8	2152
Coton Spire	. . .	
Orwell	83 7 16	21794
Maddingly	42 32 20	36?49
Barkway Mill	. . .	
Orwell from Balsham 71225 feet.		
Orwell	[illegible]	[illegible]
Balsham	[illegible]	[illegible]
Therfield Mill	. . .	
Orwell	5 30 [illegible]	73731
Balsham	118 4? [illegible]	?3613
Balsham Steeple	. . .	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet.
Orwell	128 11 48	52727
Balsham	21 12 2	11458?
Ashwell Spire	. . .	
Royston from Balsham 93515,3 feet.		
Royston	116 10 [illegible]	3580?
Balsham	10 22 53	113928
Haush Spire	. . .	
Maddingly from Balsham 61627,8 feet.		
Maddingly	46 49 28	32?17
Balsham	30 41 28	4?031
Maggots Mount	. . .	
Maddingly	82 57 37	35153
Balsham	31 33 36	67?2?
Cottenham Spire	. . .	
Balsham from Newmarket 47954,2 feet.		
Balsham	61 29 22	86118
Newmarket	82 2 21	70479
Haddenham Spire	. . .	
Balsham	64 20 43	98708
Newmarket	86 38 35	89130
Sutton Steeple	. . .	
Balsham	59 47 36	27403
Newmarket	91 43 36	41572
Bottisham Steeple	. . .	
Balsham	67 34 57	2?,66
Newmarket	29 43 3	41093
Great Wilbraham Steeple	. . .	
Newmarket from Brandon Hill 73037,7 feet.		
Newmarket	89 9 16	62766
Brandon Hill	40 40 54	96278
Stretham Spire	. . .	
Newmarket	9 45 29	39733
Brandon Hill	10 57 31	35425
Mildenhall Steeple	. . .	
Newmarket	108 41 56	25702
Brandon Hill	16 30 8	85708
Burwell Spire	. . .	

Names of Stations and intersected Objects	Observed Angles.	Distances in Feet
Bow Brickhill from Kensworth 57668 feet.		
	° ′ ″	
Bow Brickhill -	60 32 2[illegible]	139016
Kensworth -	95 3 7	121514
Therfield Steeple -	. . .	
Bow Brickhill -	59 23 51	136957
Kensworth - -	95 50 18	118495
Kelshall Steeple -	. . .	
Bow Brickhill - -	57 5 5	134708
Kensworth -	97 49 14	114145
Sandon Steeple -	. . .	
Horsemoor Hill from Brogborough 17059 feet		
Horsemoor Hill -	8 36 29	10270
Brogborough -	11 17 4	7855
Goldington Steeple -	. . .	
Horsemoor Hill -	9 7 38	1256[illegible]
Brogborough -	20 3 57	[illegible]58[illegible]
Marston Morteyne Steeple	. . .	
Hill Farm from Brogborough 26 27 feet		
Hill Farm - -	149 33 15	19[illegible]68
Brogborough -	12 55 15	41996
Woburn Abbey -	. . .	
Hill Farm from Bow Brickhill 16178 feet		
Hill Farm -	130 28 38	8088
Bow Brickhill -	16 1 12	22294
Milton Bryant Steeple	. . .	
Trusler Hill from Lilleyhoe 50673,6 feet.		
Trusler Hill -	34 26 27	21007
Lilleyhoe - -	19 36 29	35402
Toddington Steeple -	. . .	
Trusler Hill from Brogborough 14702,7 feet.		
Brogborough -	36 5 31	28117
Trusler Hill -	115 49 48	18402
Shire Ash Tree -	. . .	
Brogborough -	54 48 35	10117
Trusler Hill -	14 22 [illegible]7	1[illegible]172
Aspley Steeple -	. . .	

Names of Stations and intersected Objects	Observed Angles.	Distances in Feet.
	° ′ ″	
Brogborough -	49 35 57	140[illegible]9
Trusler Hill -	66 11 [illegible]3	12[illegible]5
Aspley Wood Oak -	. . .	
Brogborough	25 5 [illegible]	1533[illegible]
Trusler Hill -	82 [illegible] 42	6554
Spruce Fir -	. . .	
Brogborough -	101 51 23	16[illegible]6[illegible]
Trusler Hill -	41 50 44	21300
Wilden Steeple -	. .	
Trusler Hill -	1[illegible]3 25 45	99[illegible]9
Brogborough -	27 [illegible]7 3[illegible]	1[illegible]1
Crow Hut - -		
Trusler Hill - -	[illegible] 51 11	11[illegible]6
Brogborough -	34 3 55	19[illegible]38
Landon Hill -	. .	
Trusler Hill -	96 9 3	13631
Brogborough -	39 59 5	210[illegible]5
Job's Hill - -	. .	
Trusler Hill from Bow Brickhill 201[illegible]3,7 feet.		
Trusler Hill -	14 34 53	21[illegible]0
Bow Brickhill -	9[illegible] 4[illegible] [illegible]	5404
Little Brickhill -	. .	
Trusler Hill - -	13 [illegible] 14	19[illegible]32
Bow Brickhill -	73 2[illegible] 59	4716
Little Brickhill Pest House	. . .	
Arbury Hill from Helkinton 67529,4 feet.		
Arbury Hill -	27 40 [illegible]	[illegible]9[illegible]3
Helkinton - -	99 59 15	3[illegible]3
Lutterworth Steeple	. . .	
Arbury Hill -	14 32 27	17827
Helkinton - -	5 [illegible] 16	50472
Daventry Spire -	. . .	
Arbury Hill -	6 17 1	5[illegible]053
Helkinton - -	19 50 25	107[illegible]6
West Haddon Steeple	. . .	
Arbury Hill - -	4 13 [illegible]3	53531
Helkinton - -	1[illegible] [illegible] [illegible]3	14633
West Haddon Windmill	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Arbury Hill -	16 1 19	63819
Helkinton - -	70 38 24	18670
Guilesborough Spire -	. . .	
Arbury Hill -	51 42 50	44561
Helkinton - -	41 13 29	53075
Dunchurch Steeple	. . .	
Arbury Hill - -	26 50 36	85985
Helkinton - -	103 19 0	39899
Misterton Steeple -	. . .	
Arbury Hill -	29 47 6	181893
Helkinton - -	131 59 37	127767
Mount Sorrel Windmill	. . .	
Arbury Hill - -	9 12 44	80765
Helkinton - -	131 54 20	17223
Naseby Steeple -	. . .	

Arbury Hill from Burrow Hill 19028,4 feet.

Burrow Hill -	33 12 5	29610
Arbury Hill -	109 31 7	17202
Sir Geo. Shuckburgh's Observatory -	. . .	
Burrow Hill - -	73 10 36	21302
Arbury Hill -	57 45 20	24109
Branston Spire -	. . .	
Burrow Hill -	8 38 50	5513
Arbury Hill -	3 29 37	13634
Newnham Windmill -	. . .	
Burrow Hill -	32 32 51	29719
Arbury Hill -	110 38 32	17085
Shuckburg Steeple -	. . .	
Burrow Hill -	150 16 27	56311
Arbury Hill - -	22 20 41	73444
Cold Ashby Steeple -	. . .	

Helkinton from Naseby 20182 feet.

Helkinton - -	64 7 26	24618
Naseby - -	[illegible] 55 16	24077
Husband Bosworth Steeple	. .	
Helkinton - -	103 0 43	19681
Naseby - -	37 55 19	31202
South Kilworth Steeple	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Helkinton -	88 17 31	21845
Naseby - -	48 11 16	29295
North Kilworth Spire	. . .	
Helkinton -	32 37 40	24016
Naseby - -	90 11 34	12948
Sibertoft Steeple -	. . .	
Helkinton -	63 39 5	11352
Naseby - -	33 53 24	18243
Welford Steeple -	. . .	

Helkinton from Tilton 104228,1 feet.

Helkinton -	50 5 16	132396
Tilton - -	79 14 58	103365
Bardon Gazebo -	. . .	

Cropwell Bishop to Stathern 39451 feet

Cropwell Bishop -	119 58 47	97620
Stathern - -	44 2 14	122054
Bardon Gazebo -	. . .	

Tilton from Stathern 84107,6 feet.

Tilton - -	6 31 51	63918
Stathern - -	19 26 4	21849
Waltham Spire -	. . .	
Tilton - -	99 46 56	7943
Stathern - -	5 14 1	85813
Tilton Spire -	. . .	
Tilton - -	41 16 24	19787
Stathern - -	10 40 35	70456
Cold Overton Steeple	. . .	

Bardon Hill from Stathern 122298,7 feet.

Bardon Hill - -	36 49 30	94899
Stathern - -	50 50 3	73363
Nottingham Steeple -	. . .	
Bardon Hill -	88 52 51	37761
Stathern -	17 15 13	127288
Breedon on the Hill Steeple -	. . .	

Stathern from Holland Hill 83722,1 feet.

Stathern - - -	64 0 19	26178
Holland Hill - -	18 2 21	75983
Bottesford Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Stathern - -	64	24	35	13935
Holland Hill -	9	11	15	78713
Redmile Spire -	.	.	.	
Stathern - -	5	22	9	37747
Holland Hill -	4	22	39	46276
Bingham Spire -	.	.	.	
Stathern - -	25	31	53	16331
Holland Hill -	5	49	33	69344
Langar Steeple -	.	.	.	
Stathern - -	147	44	26	21843
Holland Hill - -	6	30	30	102856
Waltham Spire -	.	.	.	
Stathern - -	16	36	44	9878
Holland Hill -	2	10	41	74310
Plungar Steeple -	.	.	.	
Stathern - -	12	11	29	19125
Holland Hill - - -	3	33	14	65754
Granby Steeple -	.	.	.	
Stathern - -	89	18	48	75538
Holland Hill -	12	8	31	112580
Caythorpe Spire -	.	.	.	
Stathern - -	80	56	26	114129
Holland Hill -	59	44	27	130482
Coleby Spire	.	.	.	
Stathern - -	86	58	48	85874
Holland Hill - -	47	16	35	116731
Leadenham Spire -	.	.	.	
Stathern - - -	79	8	26	118360
Holland Hill - -	62	8	51	131471
Harmstone Steeple -	.	.	.	
Stathern - -	56	51	15	72726
Holland Hill -	48	25	28	64942
Newark Spire - -	.	.	.	
Stathern from Bottesford 28352,8 feet.				
Stathern - - -	131	17	42	4298
Bottesford - -	5	54	41	31356
Stathern Steeple -	.	.	.	
Stathern -	18	14	52	111617
Bottesford - -	155	46	4	85154
Boothby Steeple -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Stathern - -	20	1	9	104670
Bottesford - -	152	53	25	78031
Wellingore Steeple -	.	.	.	
Stathern - -	7	5	46	45040
Bottesford -	161	11	51	17263
Long Bennington Steeple	.	.	.	
Stathern - -	5	0	42	25949
Bottesford - -	169	30	40	54075
Doddington Spire -	.	.	.	
Stathern - -	8	44	55	27538
Bottesford - -	74	49	54	4340
Foston Spire -	.	.	.	
Stathern - -	135	22	38	37105
Bottesford - -	25	32	41	60932
Over Broughton Steeple	.	.	.	
Stathern - -	138	40	9	33886
Bottesford -	22	35	9	58267
Nether Broughton Steeple	.	.	.	
South End of proposed Base from Cropwell Bishop 28541 feet.				
South End of Base -	167	48	4	21538
Cropwell Bishop -	5	14	36	49801
Belvoir Castle -	.	.	.	
Bardon Hill from Tilton 103683,2 feet.				
Bardon Hill - -	54	14	42	33789
Tilton - -	18	5	27	88303
Loughborough Steeple	.	.	.	
Bardon Hill -	58	19	22	19104
Loughborough -	34	23	10	28787
Belton Spire -	.	.	.	
Bardon Hill -	1	21	21	36015
Loughborough -	158	58	8	2375
Stanford Hall -	.	.	.	
Cropwell Bishop from Bottesford 49999,4 feet.				
Cropwell Bishop -	17	32	7	35857
Bottesford -	34	21	5	19146
Barkston Spire -	.	.	.	
Cropwell Bishop -	1	24	25	47957
Bottesford - -	29	48	38	2369
Bottesford Spire -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet.
Cropwell Bishop -	14 9 25	30344
Bottesford -	19 50 4	21873
Whatton Spire -	. . .	
Cropwell Bishop -	15 14 13	42306
Bottesford -	50 27 37	14417
Redmile Spire -	. . .	
Cropwell Bishop -	36 14 4	76855
Bottesford -	104 47 22	46985
Newark Spire -	. . .	
Cropwell Bishop -	22 50 22	49783
Bottesford -	77 58 11	49757
Belvoir Castle -	. . .	
Cropwell Bishop -	38 41 5	32829
Bottesford -	40 5 41	31860
Kilvington Steeple -	. . .	

Cropwell Bishop from Holland Hill 52077,2 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Cropwell Bishop -	108 29 14	93328
Holland Hill -	47 15 35	120240
Gateway near Grantham	. . .	

Cropwell Bishop from Stathern 39452,5 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Cropwell Bishop -	16 56 8	35855
Stathern - -	63 44 16	11647
Barkstone Spire -	. . .	

Holland Hill from Sutton Ashfield 38375,2 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Holland Hill -	36 53 11	83748
Sutton Ashfield -	119 38 42	57838
Kritch Spire -	. . .	
Holland Hill -	35 29 38	85074
Sutton Ashfield -	122 1 14	58259
Hurl's Gazebo -	. . .	

Sutton Ashfield from Orpit Heights 73826,6 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Sutton Ashfield -	37 42 33	11113
Orpit Heights -	6 10 2	65150
Sutton Spire -	. . .	
Sutton Ashfield -	14 23 18	11906
Orpit Heights -	2 43 9	62364
Kirby Spire -	. . .	

Weaver Hill from Orpit Heights 71095,7 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Weaver Hill -	34 54 43	90525
Orpit Heights -	93 27 58	51904
Derby Steeple -	. . .	

Bar Beacon from Weaver Hill 161601 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Bar Beacon -	19 36 57	14758
Weaver Hill -	7 10 13	120382
Litchfield Spire -	. . .	

Bar Beacon from Castle Ring 51699,9 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Bar Beacon -	97 54 44	25140
Castle Ring -	24 17 4	65521
Wednesbury Steeple -	. . .	
Bar Beacon - -	79 56 10	48345
Castle Ring - -	47 44 21	64318
Wolverhampton Spire -	. . .	

Brown Clee Hill from Ashley Heath, 168600 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Brown Clee Hill -	39 28 38	91282
Ashley Heath -	30 35 50	114017
St. Chad's Steeple, Shrewsbury -	. . .	

Ashley Heath from Cyrn y Brain 180351,1 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Ashley Heath -	56 49 47	111013
Cyrn y Brain -	38 58 17	151739
St. Chad's Steeple, Shrewsbury -	. . .	

Long Mountain from Cyrn y Brain 114778,5 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Long Mountain -	12 10 45	81670
Cyrn y Brain -	14 51 28	67193
Pile of Stones on Cyrne Moelfre.	. . .	

Stow to the Long Mountain 104104,3 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Stow - - -	42 20 41	64010
Long Mountain -	37 12 17	71306
Pole - -	. . .	

Stow from Llandinam 98832,9 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Stow - - -	73 9 33	72940
Llandinam - -	41 56 20	104437
Mount near Montgomery	. . .	

Names of Stations and intersected Objects.	Observed Angles. °	′	″	Distances in Feet.
Stow - -	160	0	16	90591
Llandinam - -	9	33	30	186560
Titterstone Clee Hill, highest point - -	.	.	.	
Stow - -	4	55	21	90701
Llandinam -	42	35	28	11500.
Flagstaff North of Llandinam Mountain -	.	.	.	

Talsarn from New Inn Hill 89121 feet.

Talsarn - -	6	48	59	74023
New Inn Hill -	29	21	23	17921
Barrow near New Inn Hill	.	.	.	
Talsarn - -	28	44	44	105533
New Inn Hill -	93	50	20	50867
Barrow on a Hill near Newcastle -	.	.	.	

Talsarn from Tregarron Down 6495[illegible] feet.

Talsarn - -	12	58	41	56895
Tregarron Down -	53	20	30	15928
Karn of Stones near Llandowy - -	.	.	.	

Talsarn from Aberystwith 78591,5 feet.

Talsarn - -	19	29	10	93991
Aberystwith - -	107	44	53	32921
Karn of Stones on the right of Plynlimmon -	.	.	.	

Cleeve from Malvern Station, 100909,6 feet.

Cleeve - -	61	27	18	57623
Malvern Station -	34	36	2	89140
Glocester Cathedral -	.	.	.	
Cleeve - -	67	42	27	41710
Malvern Station -	24	23	50	93431
Churchdown Steeple -	.	.	.	

Malvern Station from May Hill 82255,5 feet

Malvern Station -	55	14	39	94887
May Hill - -	70	8	16	82889
Cheltenham Spire -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles. °	′	″	Distances in Feet.
Malvern Station -	40	22	0	93420
May Hill -	79	37	31	61512
Churchdown Steeple -	.	.	.	
Malvern Station -	64	33	54	85188
May Hill - -	59	18	19	89465
Cleeve Steeple -	.	.	.	
Malvern Station -	82	33	18	74657
May Hill -	45	33	54	103674
Beckford Steeple -	.	.	.	
Malvern Station -	60	19	0	95902
May Hill -	67	21	5	90279
Prestbury Steeple -	.	.	.	
Malvern Station -	60	33	56	57035
May Hill - -	43	10	17	73747
Tewkesbury Steeple -	.	.	.	
Malvern Station -	30	9	58	89133
May Hill - -	83	23	8	45090
Glocester Cathedral	.	.	.	
Malvern Station -	78	17	57	56516
May Hill - -	33	0	57	89858
Breedon Spire -	.	.	.	
Malvern Station -	19	53	10	30694
May Hill - -	11	3	51	54403
Ledbury Steeple -	.	.	.	
Malvern Station -	108	43	26	58750
May Hill - -	28	49	22	115413
Pershore Steeple -	.	.	.	

Trelleg Beacon from Mynydd Mane 86392,7 feet.

Trelleg Beacon -	22	7	18	3907
Mynydd Mane -	1	1	6	82786
Trelleg Spire -	.	.	.	
Trelleg Beacon -	114	47	10	22725
Mynydd Mane -	12	8	20	98113
Mr. Hardwick's Folly	.	.	.	
Trelleg Beacon -	88	47	11	57151
Mynydd Mane -	33	51	10	102571
A white Steeple -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet.
Trelleg Beacon	105 12 52	138485
Mynydd Mane	47 26 1	181443
Lansdown Monument	. . .	

Garth Hill from Mynydd Mane 69594,5 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Garth Hill	50 40 55	142388
Mynydd Mane	100 36 19	112071
Pleasure House	. . .	
Garth Hill	106 12 31	58078
Mynydd Mane	33 1 19	102337
Barrow on Carn Vawr	. . .	
Garth Hill	9 19 10	55019
Mynydd Mane	30 12 38	17707
Twynbarlwm Mountain	. . .	

Garth Hill from Ogmoor Down 75847,9 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Garth Hill	19 45 41	18708
Ogmoor Down	6 11 54	58584
Llantrissant Steeple	. . .	
Garth Hill	20 25 28	19812
Ogmoor Down	6 52 56	57697
Llantrissant Windmill	. . .	

Mynydd Mane from Llangeinor Mountain 114330,3 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Mynydd Mane	48 48 33	112662
Llangeinor	64 40 2	93800
Beacons of Brecknock, highest Point	. . .	
Mynydd Mane	114 11 19	90484
Llangeinor	28 35 50	172442
Sugar Loaf Mountain, or Pen y Voel	. . .	
Mynydd Mane	4 24 13	102336
Llangeinor	32 34 45	14593
Carn Vawr	. . .	

Ogmoor Down from Cefn Bryn 128827,8 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Ogmoor Down	155 48 20	30343
Cefn Bryn	4 32 30	156999
Penline Castle	. . .	
Ogmoor Down	166 50 3	42418
Cefn Bryn	3 15 1	170405
Clump of Trees on Stalling Down	. . .	

Margam Down from Llangeinor 36317,3 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Margam Down	4 20 4	29194
Llangeinor	17 1 24	7537
Blaengarrw Barrow	. . .	

Margam Down from Cefn Bryn 98765,8 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Margam Down	52 18 40	19589
Cefn Bryn	10 7 37	88163
Voul Vawr Barrow	. . .	
Margam Down	34 1 5	264709
Cefn Bryn	129 10 3	191013
East Extremity of Lundy Island	. . .	
Margam Down	30 46 14	261658
Cefn Bryn	133 16 46	183875
West Extremity of Lundy Island	. . .	
Margam Down	33 50 36	267043
Cefn Bryn	129 35 57	193015
Building on Lundy Island	. . .	
Margam Down	19 1 45	50741
Cefn Bryn	18 2 22	53424
Windmill on Kilvey Hill	. . .	

Cefn Bryn from Marros Beacon 120551 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Cefn Bryn	23 36 46	49782
Marros Beacon	14 23 30	77012
Penbree Steeple	. . .	
Cefn Bryn	1 0 53	143146
Marros Beacon	173 35 32	22714
Llandowy Steeple	. . .	
Cefn Bryn	14 34 38	131362
Marros Beacon	101 15 34	33710
Tenby Spire	. . .	
Cefn Bryn	3 8 26	131914
Marros Beacon	147 5 7	13300
Crunwell Steeple	. . .	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet.
Cefn Bryn from Lannon 62492,6 feet.		
Cefn Bryn - -	72 30 24	131352
Lannon - -	79 35 34	127372
Tenby Spire - -	. . .	
Cefn Bryn - -	56 26 30	121175
Lannon - -	92 32 48	101078
Marros Steeple -	. . .	
Marros Beacon from Lannon 102163 feet.		
Marros Beacon -	3 31 52	67188
Lannon - -	6 43 21	35346
Kidwelly Spire -	. . .	
Marros Beacon -	132 28 56	33723
Lannon - -	11 15 29	127389
Tenby Spire - -	. . .	
Marros Beacon -	48 22 39	89015
Lannon - -	57 6 22	79247
West Point of Gower -	. . .	
Marros Beacon -	116 38 39	44342
Lannon - -	17 59 25	128322
Wool House on Caldy Island	. . .	
Marros Beacon -	69 21 57	3195
Lannon - -	1 41 42	101081
Marros Steeple -	. . .	
Marros Beacon -	22 4 4	120364
Lannon - -	101 43 19	46184
Windmill near Penclath	. . .	
Ogmoor Down from Margam Down 49328,2 ft		
Ogmoor Down -	17 4 52	23063
Margam Down -	13 56 41	28111
Windmill near Lieut. Gen. Huddlestone's House	. . .	
Ogmoor Down -	26 41 6	19938
Margam Down -	15 51 39	32761
Windmill near the last	. . .	
Marros Beacon from Precelly Top 83962,5 feet.		
Marros Beacon -	71 52 39	131548
Precelly Top - -	71 0 6	132225
St. Ann's Lighthouse -	. . .	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet.
Marros Beacon -	85 47 47	95504
Precelly Top - -	51 3 39	122454
Warren Spire -	. . .	
Marros Beacon -	88 47 37	83793
Precelly Top - -	45 32 39	117366
St. Petrook's Steeple -	. . .	
Precelly Top from Plumstone Down 66753,5 ft.		
Precelly Top - -	56 44 41	34087
Plumstone Down -	30 40 18	55879
Dinas Rock - -	. . .	
Precelly Top -	25 4 28	69227
Plumstone Down -	82 8 22	29616
St. Thomas's Church Tower, Haverfordwest -	. . .	
Precelly Top -	24 0 47	68831
Plumstone Down -	82 6 49	28278
Haverfordwest Spire -	. . .	
Precelly Top -	43 26 53	115709
Plumstone Down -	102 13 55	81421
Sir H. Owen's Summer Ho	. . .	
Precelly Top -	27 22 45	66281
Plumstone Down -	76 52 8	28094
Prandergest Steeple -	. . .	
Precelly Top -	44 29 58	69759
Plumstone Down -	70 49 49	51764
Highest Point of Pencar Rock - -	. . .	
Precelly Top -	1 43 34	77314
Plumstone Down -	167 31 25	10780
Roach Castle -	. . .	
Precelly Top -	42 57 29	63198
Plumstone Down -	64 32 36	47698
Lord Milford's Summer House -	. . .	
Precelly Top -	41 4 36	122432
Plumstone Down -	107 36 47	84403
Warren Spire -	. . .	
Precelly Top -	46 35 33	117348
Plumstone Down -	99 15 4	86375
St. Petrook's Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Precelly Top from Lannon 157603 feet.		
	° ′ ″	
Precelly Top	47 48 20	37785
Lannon	11 57 14	135155
Brenin Vawr	120 14 26	
New Inn Hill to Lannon 84401,8 feet.		
New Inn Hill	101 4 23	90602
Lannon	41 8 3	135165
Brenin Vawr	. . .	
St. Ann's Hill from Precelly Mountain 128173,9 feet.		
St. Ann's Hill	158 8 26	4318
Precelly Top	0 41 49	132192
St. Ann's Lighthouse	. . .	
St. Ann's Hill	24 43 45	36892
Precelly Top	9 15 34	95914
Steinton Steeple	. . .	
St. Ann's Hill	66 10 58	56552
Precelly Top	26 9 29	117356
St. Petrook's Steeple	. . .	
St. Ann's Hill	16 20 44	44552
Precelly Top	8°21 1	86337
Johnstone Steeple	. . .	
St. Ann's Hill	72 31 42	45255
Precelly Top	20 38 32	122448
Warren Spire	. . .	
Plumstone Down from St. Ann's Hill 69637 ft.		
Plumstone Down	37 46 31	81425
St. Ann's Hill	83 57 37	50156
Sir Hugh Owen's Summer House	. . .	
Plumstone Down	27 31 7	10786
St. Ann's Hill	4 44 32	60278
Roach Castle	. . .	
Plumstone Down	36 12 45	84879
St. Ann's Hill	18 40 56	50158
St. Twinell's Steeple	. . .	
Plumstone Down	39 11 31	110896
St. Ann's Hill	103 6 10	71951
Highest Point of Gresholm Island	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Plumstone Down	45 16 23	151963
St. Ann's Hill	109 3 39	114227
Small's Lighthouse	. . .	
Plumstone Down	86 36 16	50209
St. Ann's Hill	36 56 16	83403
Penbury Rock	. . .	
Plumstone Down	64 6 47	69156
St. Ann's Hill	57 37 35	73666
Highest Point of Ramsey Island	. . .	
Plumstone Down	143 54 24	41984
St. Ann's Hill	13 25 55	106475
Puncheston Steeple	. . .	
Plumstone Down	102 47 59	36497
St. Ann's Hill	24 36 12	85483
Ruins of a Windmill near St. David's	. . .	
Plumstone Down	45 6 48	78248
St. Ann's Hill	75 25 24	57283
St. Daniel's Spire	. . .	
St. Ann's Hill from Highgate Mountain 53271,6 feet.		
St. Ann's Hill	10 10 30	50155
Highgate Mountain	66 12 43	9683
St. Twinell's Steeple	. . .	
St. Ann's Hill	21 13 27	34631
Highgate Mountain	50 50 57	24449
Summer House at Milford	. . .	
St. Ann's Hill	34 13 19	36887
Highgate Mountain	42 20 5	30804
Steinton Steeple	. . .	
St. Ann's Hill	42 36 30	44556
Highgate Mountain	55 49 36	36458
Johnstone Steeple	. . .	
St. Ann's Hill	3 5 16	57276
Highgate Mountain	141 48 17	4989
St. Daniel's Spire	. . .	
St. Ann's Hill	24 35 18	32280
Highgate Mountain	29 18 51	27432
Milford Steeple	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
St. Ann's Hill -	26° 9' 32"	30872
Highgate Mountain -	28 1 59	28959
Milford Market House		
St. Ann's Hill -	77 30 44	73215
Highgate Mountain -	62 21 22	80694
Plumstone Rock -		
St. Ann's Hill -	29 52 12	26868
Highgate Mountain -	24 3 31	32824
Hubberstone Steeple -		
St. Ann's Hill -	136 8 1	73666
Highgate Mountain -	25 38 5	117996
Higbest Point of Ramsey Island -		
St. Ann's Hill -	22 23 25	81773
Highgate Mountain -	35 25 28	119130
Llyddy Rock -		
Plumstone Down from Highgate Mountain 78797,4 feet.		
Plumstone Down	91 6	32045
Highgate Mountain -	21 58	85637
Amblestone Steeple -		
Plumstone Down -	83 3 6	51401
Highgate Mountain -	35 6 27	88719
Mote Steeple		
Plumstone Down -	102 25 19	41984
Highgate Mountain -	25 1 29	96928
Puncheston Steeple -		
PrecellyTop from Highgate Mountain 110560,7 feet.		
Precelly Top	5 37 1	12896
Highgate Mountain -	0 44 24	97735
Maenclochogue Steeple		
Marros Beacon from Newton Down 71196,8 feet.		
Marros Beacon	18 17 24	54605
Newton Down	41 31 43	25847
Carew Steeple -		
Marros Beacon	69 25 4	310
Newton Down	2 22 27	701
Marros Steeple		

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Newton Down from Highgate Mountain 27439 feet.		
Newton Down -	60° 6' 51"	38493
Highgate Mountain -	76 6 1	34381
Carew Beacon		
Newton Down -	79 6 55	67873
Highgate Mountain -	77 37 34	68237
Carew Windmill -		
Rhiw Mountain from Moel Rhyddlad 20001757 feet.		
Rhiw Mountain -	63 24 51	26991
Moel Rhyddlad -	7 19 7	189482
Old Windmill on Mynydd Mynithod -		
Rhiw Mountain -	34 20 22	67441
Moel Rhyddlad -	14 45 59	149260
Rivel Mountain, bigbest Point - -		
Llwydiart Mountain from Llanelian Mountain in Anglesea 48180,5 feet.		
Llwydiart Mountain -	129 8 4	53636
Llanelian Mountain -	26 53 9	91984
Barrow on Penmaen Mawr		
Llwydiart Mountain -	17 57 38	31449
Llanelian Mountain -	27 58	20679
Bodafon Fire Beacon -		
Llwydiart Mountain -	102 42 41	12620
Llanelian Mountain -	13 34 56	52424
Windmill near Llandonna		
Llwydiart Mountain -	38 41 13	41431
Llanelian Mountain -	58 32 52	30358
Llanerchmedd Windmill		
Llwydiart Mountain -	63 23 35	18719
Llanelian Mountain -	22 48 35	43173
Windmill near Llanbedrgoch -		
Llwydiart Mountain	45 8 6	36602
Llanelian Mountain	49 14 32	34249
Coedana Church		

Names of Stations and intersected Objects.	Observed Angles. °	′	″	Distances in Feet.
Llwydiart Mountain -	8	52	36	39037
Llanelian Mountain -	35	14	33	10680
Highest Rock on Ynys Gadarn - -	.	.	.	
Llwydiart Mountain -	12	50	37	27749
Llanelian Mountain -	16	16	37	22008
Large Stone on Ynys traeth Bychan - -	.	.	.	
Llwydiart Mountain -	144	43	53	110579
Llanelian Mountain -	24	45	21	152475
Belvidere near Plasnewydd	.	.	.	
Llwydiart Mountain -	69	24	31	91662
Llanelian Mountain -	79	28	28	87275
Rock on the Summit of a Hill near Rhoscollyn	.	.	.	
Llwydiart Mountain from Moel Rhyddlad 85401,1 feet.				
Llwydiart Mountain -	32	21	36	91663
Moel Rhyddlad -	80	46	8	49705
Rock on the Summit of a Hill near Rhoscollyn	.	.	.	
Llwydiart Mountain -	153	18	25	65109
Moel Rhyddlad -	11	30	52	146520
Barrow on Carnedd David	.	.	.	
Llwydiart Mountain -	87	59	31	125451
Moel Rhyddlad -	57	7	59	149267
Rivel Mountain highest Point - -	.	.	.	
Llwydiart Mountain -	91	44	19	114285
Moel Rhyddlad -	52	7	6	144729
Gertwyn Goch, highest Point	.	.	.	
Llwydiart Mountain -	61	36	54	52624
Moel Rhyddlad -	37	28	40	76090
South-east Chimney of Bodorgan House -	.	.	.	
Llwydiart Mountain -	54	15	54	47400
Moel Rhyddlad -	33	41	17	69367
Windmill near Tresdraeth	.	.	.	
Llwydiart Mountain -	84	18	23	166608
Moel Rhyddlad -	67	26	59	179576
Pile of Stones on a high Hill near Edern -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles. °	′	″	Distances in Feet.
Llanelian Mountain in Anglesea from Moel Rhyddlad 55199,1 feet.				
Llanelian Mountain -	64	41	20	196118
Moel Rhyddlad -	99	10	44	179590
Pile near Edern -	.	.	.	
Llanelian Mountain -	138	6	14	91976
Moel Rhyddlad -	26	24	45	138075
Barrow on Penmaen Mawr	.	.		
Llanelian Mountain -	83	15	11	20679
Moel Rhyddlad -	21	15	49	56625
Bodafon Fire Beacon -	.	.		
Llanelian Mountain -	67	20	25	68365
Moel Rhyddlad	65	25	2	69376
Windmill near Tresdraeth	.	.	.	
Llanelian Mountain -	88	24	44	43170
Moel Rhyddlad -	38	37	42	69127
Windmill near Llanbedr-goch - -	.	.	.	
Llanelian Mountain -	14	48	5	68026
Moel Rhyddlad -	121	18	19	20339
Skerry Lighthouse -	.	.	.	
Llanelian Mountain -	121	7	53	112705
Moel Rhyddlad -	40	22	20	148937
Carnedd Llewellyn, highest Point - -	.	.	.	
Llanelian Mountain -	117	10	36	112849
Moel Rhyddlad -	43	14	38	146533
Barrow on Carnedd David	.		.	
Llanelian Mountain -	15	46	32	66982
Moel Rhyddlad -	116	57	12	20429
Flagstaff on Skerry Island	.	.	.	
Llanelian Mountain -	124	48	22	52421
Moel Rhyddlad -	26	49	26	95386
Windmill near Llandonna	.	.		
Llanelian Mountain -	52	40	23	30357
Moel Rhyddlad -	33	16	10	44004
Llanerchymedd Windmill	.	.	.	
Llanelian Mountain -	28	10	56	10834
Moel Rhyddlad -	6	23	43	45935
Amlwch Steeple -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Llanelian Mountain -	14	44	48	56238
Moel Rhyddlad -	86	44	54	14338
Highest Point of the West Mouse - -	.	.	.	
Llanelian Mountain -	81	19	42	3995
Moel Rhyddlad -	4	8	16	54739
Llanelian Spire -	.	.	.	
Llanelian Mountain -	117	18	17	6235
Moel Rhyddlad -	5	27	5	58323
Signal Staff on Point Elianus - -	.	.	.	
Llanelian Mountain in Anglesea from Garreg Mountain 221262,5 feet.				
Llanelian Mountain -	80	33	58	6235
Garreg Mountain -	1	35	[illegible]	20326
Signal Staff on Point Elianus - -	.	.	.	
Llanelian Mountain in Denbighshire from Garreg Mountain 95119,6 [illegible]				
Llanelian Mountain -	10	[illegible]	4	19970
Garreg Mountain -	40	19	17	21463
Signal Staff near Gwaunysgaer - -	.	.	.	
Llanelian Mountain -	27	59	39	110527
Garreg Mountain -	92	43	[illegible]	[illegible]
Moel Fammau -	.	.	.	
Llanelian Mountain -	9	30	57	81825
Garreg Mountain -	43	10	8	19772
St. Elmo Summer House	.	.	.	
Llanelian Mountain in Denbighshire from Llanelian Mountain in Anglesea 134707,5 feet.				
Llanelian Mountain -	138	37	5	81840
Llanelian Mountain -	15	25	23	203434
St. Elmo Summer House	.	.	.	
Llanelian Mountain -	9	49	4	88262
Llanelian Mountain -	17	30	0	50049
Llandonna Signal Staff	.	.	.	
Llanelian Mountain in Denbighshire from Cyrn y Brain Mountain 145773,8 feet.				
Llanelian Mountain -	13	24	32	110527
Cyrn y Brain Mountain	33	49	6	46052
Moel Fammau -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Llanelian Mountain -	25	44	43	151441
Cyrn y Brain Mountain	81	53	48	66445
Pile of Stones on Cader Ferwyn - -	.	.	.	
Base Line on Rhuddlan Marsh 24514,3 feet.				
East End of Base -	128	28	45	12670
West End of Base -	17	1	17	33882
St. Asaph Cathedral	.	.	.	
East End of Base -	102	22	45	1591
West End of Base -	3	34	37	24904
Rhuddlan Steeple -	.	.	.	
East End of Base -	8	9	59	24390
West End of Base -	83	52	37	3484
Abergele Steeple -	.	.	.	
East End of Base -	143	40	2	58508
West End of Base -	25	49	7	79593
Earl Grosvenor's Summer House - -	.	.	.	
East End of Base -	151	23	42	23530
West End of Base -	14	0	12	46556
Goperlini Fire Beacon	.	.	.	
East End of Base -	38	54	15	23723
West End of Base -	67	53	18	16081
Melwyn Glodadl Old Windmill -	.	.	.	
East End of Base -	9	53	0	33824
West End of Base -	146	36	31	10549
Signal Staff on Cave Hill	.	.	.	
East End of Base from Moelfre Issa 26427,8 ft.				
East End of Base -	81	30	13	112860
Moelfre Issa -	85	0	23	112047
Highest Point of Moel Morwith - -	.	.	.	
East End of Base from Gwaunysgaer Down 20981,2 feet.				
East End of Base -	114	34	41	8145
Gwaunysgaer Down -	10	54	25	25170
Flagstaff at Wygfair -	.	.	.	
East End of Base -	10	11	42	23528
Gwaunysgaer Down -	103	48	35	6757
Goperlini Fire Beacon	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distance in Feet.
West End of Base from Moelfre Issa 17602,2 ft.				
West End of Base -	70	51	15	10548
Moelfre Issa -	35	10	2	17301
Signal Staff on Cave Hill				
Cyrn y Brain Mountain from Long Mountain 144778,5 feet.				
Cyrn y Brain Mountain	48	54	57	66443
Long Mountain	26	20	53	112838
Pile of Stones on Cader Ferwyn - -				
Cyrn y Brain Mountain	125			35682
Long Mountain -	10			167846
Fire Beacon near Caergwrte Castle -				
Cyrn y Brain Mountain	124	32	49	82609
Long Mountain -	19	32	56	203346
Trinity Spire, Chester -				
Cyrn y Brain Mountain from Delamere Forest 126431,6 feet.				
Cyrn y Brain Mountain	16	41	6	190893
Delamere Forest -	135	49	58	78661
Winwick Spire -	.	.	.	
Cyrn y Brain Mountain	59	36	56	63661
Delamere Forest -	20	14	0	109067
Moel y Gaer Fire Beacon	.	.	.	
Cyrn y Brain Mountain from Garreg Mountain 97450 feet.				
Cyrn y Brain Mountain	14	46	20	63664
Garreg Mountain -	24	20	13	39391
Moel y Gaer Fire Beacon	.	.	.	
Cyrn y Brain Mountain	31	14	29	94662
Garreg Mountain -	71	24	31	51799
Neston Steeple -	.	.	.	
Cyrn y Brain Mountain	64	26	10	82610
Garreg Mountain -	50	19	50	96815
Trinity Spire, Chester -	.	.	.	
Garreg Mountain from Delamere Forest 137294 feet.				
Garreg Mountain	49	8	8	63044
Delamere Forest	26	24		107229
Bidston Lighthouse				

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
Garreg Mountain -	43	14	41	79498
Delamere Forest -	34	27	14	96273
St. Paul's, Liverpool -				
Delamere Forest from Ashley Heath 129401,1 feet.				
Delamere Forest -	34	18	16	34050
Ashley Heath -	10	43	47	103076
Beeston Castle, highest Point - -				
Delamere Forest from Belle-field Hill 53307,1 feet.				
Delamere Forest -	28	33	50	40741
Belle-field Hill -	48	1	29	26202
Halton Castle -	.	.	.	
Delamere Forest	11	15	56	78654
Belle-field Hill -	147	11	18	28356
Winwick Spire	.	.	.	
Delamere Forest from Billinge Beacon 104463,5 feet.				
Delamere Forest -	15	53	24	148512
Billinge Beacon -	133	20	33	55910
Rivington Pike - -				
Delamere Forest -	18	32	56	107223
Billinge Beacon -	17	22	52	87062
Bidston Lighthouse				
Delamere Forest from Heswell Hill 99750,6 ft.				
Delamere Forest	21	32	16	96271
Heswell Hill -	73	54	4	36785
St. Paul's, Liverpool -				
Delamere Forest -	111	22		34059
Heswell Hill -	15	47		116564
Beeston Castle -				
Heswell Hill from Billinge Beacon 105303,5 ft.				
Heswell Hill -	39	4		25400
Billinge Beacon -	10	35		87068
Bidston Lighthouse				
Heswell Hill -	164	30	3	212108
Billinge Beacon -	10	22	17	314842
Highest Point of Tryfan Rock in Wales -				

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Heswell Hill -	51	43	17	76157
Billinge Beacon -	45	48	22	83383
N. W. Landmark near Formby - -	.	.	.	
Heswell Hill - -	46	55	55	75453
Billinge Beacon -	45	42	22	77010
S. E. Landmark near Formby - -	.	.	.	
Heswell Hill -	36	57	37	60093
Billinge Beacon -	32	14	25	67729
Crosby Steeple - -	.	.	.	
Heswell Hill - -	92	7	20	27779
Billinge Beacon -	14	37	53	109896
Helbre Lighthouse - -	.	.	.	
Heswell Hill -	23	20	27	22120
Billinge Beacon -	5	53	13	85445
Bebbington Spire -	.	.	.	
Heswell Hill -	132	28	58	48899
Billinge Beacon -	14	36	42	142952
Point of Air Lighthouse	.	.	.	
Heswell Hill - -	28	18	30	68633
Billinge Beacon -	35	57	2	55438
Sephton Spire -	.	.	.	
Heswell Hill - -	8	21	54	46312
Billinge Beacon -	6	27	43	59864
Wavertree Steeple -	.	.	.	
Heswell Hill -	24	58	35	93259
Billinge Beacon -	62	11	42	44518
Windmill on the Race-ground near Ormskirk	.	.	.	
Heswell Hill - -	62	52	50	29614
Billinge Beacon -	16	1	11	95513
Leasowes Lighthouse -	.	.	.	
Garreg Mountain from Heswell Hill 45852,5 f.				
Garreg Mountain -	45	28	23	100938
Heswell Hill -	109	6	28	76156
N. W. Landmark near Formby - -	.	.	.	
Garreg Mountain -	42	4	25	102951
Heswell Hill -	113	53	50	75454
S. E. Landm. near Formby	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Garreg Mountain -	35	53	26	44147
Heswell Hill - -	68	42	25	27777
Helbre Lighthouse -	.	.	.	
Garreg Mountain -	20	10	25	51792
Heswell Hill - -	98	47	32	18074
Neston Steeple -	.	.	.	
Garreg Mountain -	83	4	5	23385
Heswell Hill - -	28	20	46	48893
Point of Air Lighthouse	.	.	.	
Garreg Mountain -	38	9	41	21166
Heswell Hill - -	24	7	10	32004
Pen Maes Amwell Windmill - -	.	.	.	
Garreg Mountain -	12	45	21	74563
Heswell Hill - -	148	30	16	31513
Eastham Spire -	.	.	.	
Cyrn y Brain Mountain from Heswell Hill 108837,6 feet.				
Cyrn y Brain Mountain	16	29	5	110635
Heswell Hill - -	84	59	34	31514
Eastham Spire -	.	.	.	
Cyrn y Brain Mountain	39	31	48	82603
Heswell Hill - -	49	21	35	69286
Trinity Spire, Chester -	.	.	.	
Heswell Hill from Belle-field Hill 113961,3 ft.				
Heswell Hill - -	24	27	7	73223
Belle-field Hill -	32	38	53	56182
Prescot Spire -	.	.	.	
Heswell Hill - -	45	27	12	43937
Belle-field Hill -	20	38	17	88840
Everton Flagstaff -	.	.	.	
Billinge Beacon from Belle-field Hill 63369,2 ft.				
Billinge Beacon -	89	18	48	63033
Belle-field Hill - -	46	11	21	88843
Everton Flagstaff -	.	.	.	
Billinge Beacon -	62	0	30	34825
Belle-field Hill -	33	10	57	56186
Prescot Spire - -	.	.	.	
Billinge Beacon -	23	47	38	63724
Belle-field Hill - -	78	51	49	26203
Halton Castle -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Billinge Beacon -	109 15 17	55917
Belle-field Hill - -	32 50 0	97363
Rivington Pike -	. . .	
Billinge Beacon -	74 59 10	85446
Belle-field Hill - -	63 27 6	92256
Bebbington Spire -	. . .	
Billinge Beacon -	3 57 7	50834
Belle-field Hill - -	15 28 25	13132
Sankey Street Chapel, Warrington - -	. . .	
Billinge Beacon -	7 20 47	51889
Belle-field Hill - -	29 7 45	13630
Warrington Steeple -	. . .	
Billinge Beacon -	57 18 29	102305
Belle field Hill - -	84 37 3	86480
St. Mary's Spire, Manchester - -	. . .	
Billinge Beacon -	129 50 6	31489
Belle-field Hill - -	16 8 33	86969
Standish Spire -	. . .	

Billinge Beacon from Go Hill 46647,8 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Billinge Beacon -	86 23 15	31486
Go Hill - -	35 7 42	54610
Standish Spire -	. . .	
Billinge Beacon -	42 39 15	22825
Go Hill - -	27 22 52	33628
Ashurst Beacon -	. . .	
Billinge Beacon -	26 57 20	55438
Go Hill - -	96 17 6	25282
Sephton Spire -	. . .	
Billinge Beacon -	30 39 53	67721
Go Hill - -	108 34 12	36435
Crosby Steeple -	. . .	
Billinge Beacon -	20 27 49	77220
Go Hill - -	133 33 20	37273
North Meals Spire -	. . .	
Billinge Beacon -	3 12 26	58654
Go Hill - -	164 35 17	12358
Halsall Spire -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Billinge Beacon -	105 39 4	42741
Go Hill - -	35 16 35	71264
Blackrod Steeple -	. . .	
Billinge Beacon -	9 56 40	45926
Go Hill - -	79 54 15	8056
Aughton Spire -	. . .	
Billinge Beacon -	22 40 55	63726
Go Hill - -	116 18 31	27413
Blundell's Summer House	. . .	

Llanelian Mountain in Denbighshire from Billinge Beacon 239683 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Llanelian Mountain -	8 31 56	184143
Billinge Beacon -	25 23 13	63726
Blundell's Summer House	. . .	

Garreg Mountain from Billinge Beacon 149374,3 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Garreg Mountain -	15 54 47	122863
Billinge Beacon - -	47 10 31	45929
Aughton Spire -	. . .	

Heswell Hill from Go Hill 93756,3 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Heswell Hill -	25 25 47	76159
Go Hill - -	52 37 48	41149
N. W. Landmark near Formby - -	. . .	
Heswell Hill -	20 38 25	75454
Go Hill - -	48 58 12	35258
S. E. Landm. near Formby	. . .	
Heswell Hill - -	1 54 8	97911
Go Hill - -	141 36 16	5233
Ormskirk Spire -	. . .	
Heswell Hill - -	1 18 55	93260
Go Hill - -	76 19 0	2203
Windmill on the Race-ground near Ormskirk	. . .	
Heswell Hill -	36 35 18	29607
Go Hill - -	14 9 11	72175
Leasowe's Lighthouse -	. . .	

Billinge Beacon from Wittle Hill 113827,4 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Billinge Beacon -	35 47 10	102312
Wittle Hill - -	62 44 11	67305
St. Mary's Spire, Manches	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Wittle Hill	98 54 58	8823
Billinge Beacon	76 45 23	115524
Knoll Hill	. . .	
Knoll Hill	156 33 49	35962
Wittle Hill	18 52 56	44196
Bennington Steeple	. . .	
Knoll Hill	137 27 6	40456
Wittle Hill	35 18 25	47333
Lord Gray's Belvidere	. . .	
Wittle Hill from Boulsworth Hill 64650,8 feet		
Wittle Hill	54 38 20	63509
Boulsworth Hill	61 41 33	58828
Justice Waller's Pleasure House	. . .	
Boulsworth Hill from Ingleborough Hill 141994,3 feet.		
Boulsworth Hill	0 4 39	142051
Ingleborough Hill	106 24 0	200
Old Building on Ingleborough Hill	. . .	
Boulsworth Hill	12 13 24	127448
Ingleborough Hill	57 7 52	32126
Highest Rock on Pennigant Hill	. . .	
Boulsworth Hill from Rumbles Moor 68367,9 feet.		
Boulsworth Hill	58 27 15	140262
Rumbles Moor	92 24 8	119640
Highest Barrow on Cam Fell	. . .	
Boulsworth Hill	55 16 54	39128
Rumbles Moor	34 54 40	56196
Pinnow Fire Beacon	. . .	
Rumbles Moor from Ledstone Beacon 119122,5 feet.		
Rumbles Moor	[illegible]5 45 31	121777
Ledstone Beacon	74 4 37	74002
Staincross Fire Beacon	. . .	
Rumbles Moor	53 45 27	44971
Ledstone Beacon	21 24 12	99390
Fire Beacon on a Rock near Otley	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Rumbles Moor	39 42 6	116405
Ledstone Beacon	68 19 8	80020
Blackett's Gazebo	. . .	
Rumbles Moor	35 1 59	180819
Ledstone Beacon	105 34 36	107756
Woburnstand Monument	. . .	
Rumbles Moor	30 19 10	162023
Ledstone Beacon	104 13 41	84381
York Spire	. . .	
Rumbles Moor	25 17 13	107386
Ledstone Beacon	64 21 2	50884
Wakefield Spire	. . .	
Ledstone Beacon from Staincross Heights 78589,6 feet.		
Ledstone Beacon	7 23 4	73996
Staincross Heights	61 17 53	10843
Staincross Fire Beacon	. . .	
Ledstone Beacon	13 8 32	80022
Staincross Heights	87 54 44	18207
Blackett's Gazebo	. . .	
Ledstone Beacon	24 6 56	107753
Staincross Heights	114 10 15	48256
Woburnstand Monument	. . .	
Ledstone Beacon	17 6 38	50883
Staincross Heights	26 33 5	33491
Wakefield Spire	. . .	
Ledstone Beacon	20 5 52	51060
Staincross Heights	29 47 53	35307
Wakefield New Church	. . .	
Ledstone Beacon	120 59 59	50820
Staincross Heights	22 34 4	113459
Brayton Spire	. . .	
Ledstone Beacon	109 35 22	75941
Staincross Heights	34 30 45	126275
Drax Spire	. . .	
Ledstone Beacon	38 54 13	82705
Staincross Heights	74 40 49	53853
Bilbam Grange Summer House	. . .	

Names of Stations and intersected Objects.	Observed Angles. °	′	″	Distance in Feet.
Rumbles Moor from Staincross Heights 132613,5 feet.				
Rumbles Moor -	46	25	13	47469
Staincross Heights	18	59	46	105643
Swilling End Fire Beacon	.	.	.	
Rumbles Moor -	17	51	7	50788
Staincross Heights	10	28	4	85697
Windm. on Clayton Heights	.	.	.	
Rumbles Moor -	6	27	0	125028
Staincross Heights -	59	11	8	16354
High Howland Church Tower - -	.	.	.	
Ledstone Beacon from Hambleton Down 173679,7 feet.				
Ledstone Beacon	52	24	54	99397
Hambleton Down -	34	51	57	137787
Fire Beacon on a Rock near Otley - -				
Ledstone Beacon -	95	7	49	75946
Hambleton Down -	22	44	25	195682
Drax Spire -				
Ledstone Beacon -	88	46	35	98507
Hambleton Down -	29	51	21	197832
Howden Steeple -	.	.		
Ledstone Beacon -	48	41	0	139139
Hambleton Down -	51	56	32	132722
Bishop Wilton Spire -				
Ledstone Beacon -	26	35	2	33280
Hambleton Down -	5	54	29	144687
Obelisk near Bramham				
Ledstone Beacon from Black Hambleton 194930,8 feet.				
Ledstone Beacon -	23	45	4	33280
Black Hambleton -	4	39	33	165015
Obelisk near Bramham	.	.	.	
Ledstone Beacon -	51	30	58	139135
Black Hambleton -	45	8	56	153627
Bishop Wilton Spire -	.	.	.	
Ledstone Beacon -	86	37	10	50823
Black Hambleton -	14	48	24	198526
Brayton Spire - -	.	.	.	

Names of Stations and intersected Objects.	Observed Angles. °	′	″	Distances in Feet.
Ledstone Beacon -	66	10	39	92388
Black Hambleton - -	28	12	4	178845
Fire Beacon westward of Otley - -				
Rumbles Moor from Black Hambleton 192504,3 feet.				
Rumbles Moor -	57	14	2	28147
Black Hambleton -	7	36	18	178844
Fire Beacon westward of Otley - -				
Rumbles Moor -	155	30	21	47476
Black Hambleton -	4	46	25	236528
Swilling End Fire Beacon				
Hambleton Down from Wilton Beacon 133262,7 feet.				
Hambleton Down	24	39	11	197832
Wilton Beacon	119	25		94738
Howden Steeple				
Hambleton Down from Black Hambleton 23119,3 feet.				
Hambleton Down -	104	34	38	76521
Black Hambleton	60	13	13	85326
Northmost Tower on Ripon Church				
Wilton Beacon from Hunsley Beacon 82862,3 ft.				
Wilton Beacon -	42	50	24	94741
Hunsley Beacon -	78	15	19	65797
Howden Steeple -	.	.	.	
Wilton Beacon - -	27	6	26	57395
Hunsley Beacon -	39	27	34	41151
Home Church Tower -	.	.	.	
Burleigh Moor from Easington Heights 42270,7 feet.				
Burleigh Moor	40	44	51	51504
Easington Heights -	84	28	29	33774
Danby Fire Beacon -				
Burleigh Moor -	126	21	42	54368
Easington Heights -	30	26	25	86416
Hartlepool Steeple -				
Burleigh Moor -	138	30	6	87740
Easington Heights	28	17	48	122640
A white Spire - -				

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Burleigh Moor -	149 34 18	110856
Easington Heights -	22 9 33	148852
Signal Staff - -	. . .	
Burleigh Moor -	119 23 4	162322
Easington Heights -	49 14 22	186731
Signal Staff near Sunderl.	. . .	
Burleigh Moor -	121 58 14	143727
Easington Heights -	45 50 51	169935
Sunderland Steeple -	. . .	
Burleigh Moor -	135 19 28	14811
Easington Heights -	11 9 24	53820
A Church Tower with high Pinnacles - -	. . .	
Burleigh Moor -	104 59 47	16715
Easington Heights -	19 6 44	49313
Gable End of a House at Redcar - -	. . .	
Burleigh Moor -	122 10 46	19531
Easington Heights -	17 25 26	55205
Centre Pediment of a House at Cotham -	. . .	
Burleigh Moor -	100 32 7	16038
Easington Heights -	19 13 48	47875
Redcar Staff -	. . .	
Burleigh Moor -	120 26 16	48875
Easington Heights -	32 9 20	79176
Windmill on the Summit of a Hill near Houghton	. . .	
Burleigh Moor -	151 57 52	25891
Easington Heights -	10 35 4	66251
Church Tower among Trees	. .	
Burleigh Moor from Botton Head 60956,5 feet.		
Burleigh Moor -	24 24 11	26094
Botton Head - -	16 9 54	38724
Roseberry Topping -	. . .	
Burleigh Moor -	137 31 38	54367
Botton Head - -	19 57 52	107520
Hartlepool Steeple -	. . .	
Burleigh Moor -	78 27 10	57827
Botton Head - -	48 55 31	75156
Stockton Market House	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Burleigh Moor -	72 42 42	53175
Botton Head - -	48 21 8	67947
Windmill near Stockton	. . .	
Botton Head from Easington Heights 77788,9 feet.		
Botton Head - -	30 31 52	13433
Easington Heights -	5 53 2	66569
Westerdale Station -	. . .	
Botton Head - -	52 39 56	107503
Easington Heights -	81 37 6	86397
Hartlepool Church Tower	. . .	
Botton Head - -	52 3 1	103348
Easington Heights -	82 33 33	86163
Hartlepool Signal Staff	. . .	
Loosehoe Moor from Botton Head 35244,2 feet.		
Loosehoe Moor -	126 52 48	141943
Botton Head - -	43 18 47	165513
Church Tower near Scarborough - -	. . .	
Hunsley Beacon from Crowle Beacon 87370 ft.		
Hunsley Beacon -	113 23 1	48631
Crowle Beacon -	22 42 25	115633
Nunburnholme Station -	. . .	
Hunsley Beacon -	1 9 56	89520
Crowle Beacon -	139 29 49	2804
Crowle Steeple - -	. . .	
Clifton Beacon from Crowle Beacon 102613,6 feet.		
Clifton Beacon -	41 40 20	123690
Crowle Beacon -	82 54 53	82871
Selby Steeple - -	. . .	
Crowle Beacon -	85 10 58	88930
Clifton Beacon -	42 53 36	129893
Brayton Spire - -	. . .	
Clifton Beacon -	47 5 56	73349
Crowle Beacon -	45 33 53	75248
Gringley Steeple -	. . .	
Clifton Beacon -	24 26 33	81680
Crowle Beacon -	50 6 20	44052
Axholme Steeple -	. . .	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet
Clifton Beacon	124 42 6	25309
Crowle Beacon	10 6 59	118928
Loughton Spire		
Clifton Beacon	21 53 6	46610
Crowle Beacon	16 18 48	61852
Hatfield Steeple		
Clifton Beacon	9 56 5	82725
Crowle Beacon	34 2 19	25497
Thorne Steeple		
Gringley Beacon from Crowle Beacon 74543,4 feet.		
Gringley Beacon	7 58 2	45578
Crowle Beacon	12 7 30	30076
Epworth Steeple	. . .	
Crowle Beacon	12 14 55	22457
Gringley Beacon	5 10 33	52812
Belton Steeple -	. . .	
Gringley Beacon from Clifton 750681,1 feet.		
Gringley Beacon -	33 19 4	18483
Clifton Beacon -	9 39 49	60481
Missin Steeple -		
Gringley to North End of Base 44338,2 feet.		
Gringley Beacon	21 18 32	52817
North End of Base	104 13 50	19801
Belton Steeple -		
Gringley Beacon	24 6 14	45580
North End of Base	81 38 58	18814
Epworth Steeple		
Gringley Beacon	91 11 38	30661
Clifton Beacon	22 2 37	81678
Axholme Steeple		
Gringley Beacon	80 31 8	10724
Clifton Beacon	8 12 41	74061
Retford Spire		
Staincross Heights from Clifton Beacon 79929,2 feet.		
Staincross Heights	11 31 2	67978
Clifton Beacon	45 32 21	19017
Milton Steeple -		

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
North End of Base to South End of Base 26342,7 feet.		
North End of Base -	22 27 39	5851
South End of Base -	6 5 39	21055
Wroot Chapel -		
Go Hill from Beryl Hill 104867,8 feet.		
Go Hill - -	80 46	5231
Beryl Hill - -	2 50 2	104158
Ormskirk Spire		
Go Hill - -	3 17 4	67162
Beryl Hill - -	5 49 3	38013
Flagstaff near North Meal.		
Go Hill - -	104 11 5	33629
Beryl Hill - -	16 4 4	17721
Ashurst Beacon		
Beryl Hill - -	120 43 14	2973
Ashurst Beacon -	58 3 4	119268
North Station on the Cliff near Blackpool		
Beryl Hill - -	23 25 12	3316
North Station -	93 0 5	1320
South Station on the Cliff near Blackpool -	63 33 57	
Beryl Hill - -	80 41 39	6910
North Station - -	74 46 25	7067
Flagstaff with a Vane on the Sea-coast		
Beryl Hill - -	100 19 56	6470
North Station - -	56 59 57	7590
Bispham Church Tower		
Beryl Hill - -	103 41 1	32912
North Station -	71 24 0	33739
Summer House near Rossal		
Beryl Hill - -	104 6 55	6911
South Station -	53 16 10	8363
Flagstaff with a Vane near the Sea-coast		
Beryl Hill - -	123 45 13	6463
South Station - -	37 53 1	8752
Bispham Church Tower		

Names of Stations and intersected Objects.	Observed Angles.			Distances in Feet.
	°	′	″	
Beryl Hill	127	6	34	32915
South Station	48	33	34	35016
Summer House near Rossal	.	.	.	
Beryl Hill from Black Comb 164674,5 feet.				
Beryl Hill	18	12	52	29622
Black Comb	3	52	46	136851
Landmark, Rossal Point	.	.	.	
Beryl Hill	96	58	13	11035
Black Comb	3	46	29	166373
Poulton Church Tower	.	.	.	
Black Comb from Ingleborough Hill 201970,3 feet.				
Black Comb	52	11	26	60478
Ingleborough Hill	16	9	35	171678
Pile of Stones on Coniston Fell	.	.	.	
Black Comb	79	58	11	75972
Ingleborough Hill	21	37	19	203024
Highest Point of Sca-Fell	.	.	.	
Black Comb	55	50	8	78749
Ingleborough Hill	22	26	38	170675
Peel Castle	.	.	.	
Black Comb from The Calf 178609,8 feet.				
Black Comb	47	7	42	135152
The Calf	48	49	3	131607
Lancaster Church Tower near the Castle	.	.	.	
Black Comb	29	43	7	60481
The Calf	13	22	37	129599
Coniston Fell	.	.	.	
Black Comb	60	48	18	85156
The Calf	28	28	20	155932
Pile of Stones on Great Gavel	.	.	.	
Black Comb from Dent Hill 95963,3 feet.				
Black Comb	7	42	54	119396
Dent Hill	144	21	22	27505
Windmill near Whitehaven	.	.	.	
Black Comb	27	11	6	88107
Dent Hill	66	23	47	43928
Pile of Stones on the Pillar	.	.	.	
Dent Hill from Scilly Bank 25910,8 feet.				
Dent Hill	118	27	25	42963
Scilly Bank	39	9	29	59827
Pile of Stones on Red Pike	.	.	.	
Dent Hill	83	45	34	32329
Scilly Bank	55	7	39	39172
Pile of Stones on Blake Fell	.	.	.	
Dent Hill	98	4	10	51026
Scilly Bank	56	47	21	60384
Highest Point of Grasmere Fell	.	.	.	
Dent Hill	94	27	45	37030
Scilly Bank	61	54	31	64450
Grisdale Pike	.	.	.	
Dent Hill	7	44	41	20230
Scilly Bank	24	55	36	6453
Windmill near Whelpside Hall	.	.	.	
Dent Hill	17	45	28	53191
Scilly Bank	146	45	7	29589
Chapel on Workington Head	.	.	.	
Dent Hill from Crif-Fell Hill 162371,1 feet.				
Dent Hill	103	22	32	43926
Crif-Fell Hill	13	54	42	177747
The Pillar	.	.	.	
Dent Hill	1	0	28	136655
Crif-Fell Hill	5	20	7	25849
Lighthouse, Saturness Point	.	.	.	
Dent Hill	34	30	48	20229
Crif-Fell Hill	4	29	53	146152
Windmill near Whelpside House	.	.	.	
Scilly Bank from Crif-Fell Hill 139727,3 feet.				
Scilly Bank	131	0	27	23356
Crif-Fell Hill	6	29	6	156051
Lighthouse, St. Bee's Head	.	.	.	

Names of Stations and intersected Objects	Observed Angles. ° ′ ″	Distances in Feet.
The Calf from Ingleborough Hill 77614,6 feet.		
The Calf - -	120 52 29	151951
Ingleborough Hill -	39 58 13	203020
Sca-Fell - -	. . .	
The Calf - -	70 34 6	179999
Ingleborough Hill -	84 2 11	170670
Peel Castle - -	. . .	
The Calf - -	97 3 30	131604
Ingleborough Hill -	47 7 9	97174
Lancaster Church Tower	. . .	
The Calf - -	17 38 50	95829
Ingleborough Hill -	115 15 21	32122
Pennigant Hill -	. . .	
The Calf - -	35 21 10	62612
Ingleborough Hill -	53 45 58	44914
Kirkby Lonsdale Church Tower - -	. . .	
The Calf - -	6 15 42	56375
Ingleborough Hill -	15 54 24	22435
Wbernside in Ingleton Fells	. . .	
The Calf from Water Crag 89384 feet.		
The Calf - -	81 38 29	56376
Water Crag - -	34 29 22	98502
Wbernside - -	. . .	
The Calf from Cross Fell 122505,3 feet.		
The Calf - -	26 5 56	122388
Cross Fell - -	76 49 57	55295
Penrith Beacon -	. . .	
The Calf from High Pike 169069,5 feet.		
The Calf - -	19 31 5	122390
High Pike - -	37 16 53	67500
Penrith Beacon -	. . .	
The Calf - -	31 13 25	155925
High Pike - -	66 9 8	88373
Pile of Stones on Great Gavel - -	. . .	
Cross Fell from High Pike 120904,9 feet.		
Cross Fell - -	33 14 21	171570
High Pike - -	103 30 35	96720
Bow Fell - -	. . .	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet.
Cross Fell - -	2 11 33	113385
High Pike -	29 42 27	8753
Pile of Stones on Carrock Fell - -	. . .	
Cross Fell - -	68 2 3	74815
High Pike -	36 44 59	115967
Cold-Fell Pike - -	. . .	
Cross Fell - -	79 24 13	44144
High Pike -	21 2 34	120846
Duffenside Beacon -	. . .	
Cross Fell - -	11 21 49	121303
High Pike -	85 15 55	23983
Saddle Back - -	. . .	
Cross Fell from Crif-Fell Hill 255886,1 feet.		
Cross Fell - -	48 22 48	74820*
Crif-Fell Hill - -	15 10 38	213643
Cold Fell Pike -	. . .	
Cross Fell - -	59 45 0	44144
Crif-Fell Hill -	9 16 10	236739
Duffenside Beacon -	. . .	
Cross Fell - -	21 50 47	113386
Crif-Fell Hill -	15 38 49	156440
Carrock Fell - -	. . .	
Cross Fell from Water Crag 125741,8 feet.		
Cross Fell - -	13 7 52	101367
Water Crag -	40 26 6	35506
Highest Pile on the Nine Standards - -	. . .	
Cross Fell - -	89 3 29	55673
Water Crag -	24 2 3	136676
Pile of Stones on Kilhope Law - -	. . .	
Crif Fell Hill from High Pike 147733,5 feet.		
Crif-Fell Hill - -	38 41 44	25812
High Pike -	7 12 30	128605
Lighthouse, Saturness Point - -	. .	
Crif-Fell Hill - -	65 38 23	25317
High Pike -	9 32 8	139215
Carlaveroc Castle -	. . .	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet.
Crif-Fell Hill - -	47 50 47	79672
High Pike -	32 4 14	111240
Annan Spire - -	. . .	
Crif-Fell - -	48 53 22	78148
High Pike - -	31 25 46	112917
Spire on the Townhouse in Annan - -	. . .	
Crif-Fell - -	32 20 38	213478
High Pike - -	105 56 30	118778
Byers Pike - -	. . .	
Crif-Fell - -	6 23 4	164280
High Pike - -	130 21 55	23976
Saddle Back -	. . .	
Crif-Fell from Wisp Hill 186814,9 feet.		
Crif-Fell - -	20 57 29	169852
Wisp Hill -	65 6 4	66979
Pile on Whin Fell -	. . .	
Wisp Hill from High Pike 212277,5 feet.		
Wisp Hill - -	32 38 47	160458
High Pike - -	48 16 56	115964
Cold Fell Pike -	. . .	
Collier Law from High Pike 229938 feet.		
Collier Law - -	60 25 46	222576
High Pike - -	58 11 10	227816
Pile on Peel Fell -	. . .	
Water Crag from Collier Law 125314,1 feet.		
Water Crag -	28 17 50	136675
Collier Law - -	85 36 44	64981
Kilhope Law -	. . .	
Water Crag - -	29 21 23	167179
Collier Law - -	103 58 31	84458
Durham Cathedral -	. . .	
Botton Head from Wordeslow Hill 176913,7 ft.		
Botton Head -	51 53 39	19174
Wordeslow Hill -	5 13 19	165769
Pile on a Hill near Stokesley	. . .	
Botton Head -	13 34 34	108349
Wordeslow Hill -	19 33 28	75976
Hartlepool Signal Staff	. . .	

Names of Stations and intersected Objects.	Observed Angles. ° ′ ″	Distances in Feet.
Botton Head - -	12 57 27	107496
Wordeslow Hill -	18 28 20	76074
Hartlepool Church Tower	. . .	
Wordeslow Hill from Easington Heights 161215,8 feet.		
Wordeslow Hill -	101 54 25	28605
Easington Heights -	9 30 28	169445
Sunderland Lighthouse	. . .	
Wordeslow Hill from Burleigh Moor 130039,1 feet.		
Wordeslow Hill -	113 13 12	28609
Burleigh Moor -	10 32 21	143744
Sunderland Lighthouse	. . .	
Wordeslow Hill -	3 42 50	76072
Burleigh Moor - -	5 12 10	54344
Hartlepool Church Tower	. . .	
Wordeslow Hill -	4 47 49	75978
Burleigh Moor - -	6 40 10	54703
Hartlepool Signal Staff	. . .	
Wordeslow Hill -	131 52 49	41747
Burleigh Moor - -	11 8 8	160938
Windmill on Marston Hill	. . .	
Wordeslow Hill -	129 53 34	41646
Burleigh Moor - -	12 10 56	162329
Signal Staff on Marston Hill - -	. . .	
Burleigh Moor from Brandon Down 150771 feet.		
Burleigh Moor -	22 40 8	102690
Brandon Down - -	35 14 35	68586
Easington Church Tower	. . .	
Burleigh Moor -	36 55 29	162329
Brandon Down - -	77 50 50	99758
Signal Staff on Marston Hill - -	. . .	
Brandon Down from Black Hambleton 187275,6 feet.		
Brandon Down -	31 6 0	49443
Black Hambleton -	9 59 36	147172
Brusselton Folly -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Collier Law from Wordeslow Hill 119613 feet	° ′ ″	
Collier Law - -	55 52 39	82633
Wordeslow Hill -	43 2 19	100232
Brusselton Folly -	. . .	
Collier Law - -	13 13 41	84455
Wordeslow Hill -	27 19 36	42098
Durham Cathedral -	. . .	
Collier Law - -	39 37 14	81504
Wordeslow Hill -	42 26 38	77015
Westerton Folly -	. . .	
Collier Law - -	36 47 55	87550
Wordeslow Hill -	46 38 56	72120
Merrington Church Tower	. . .	
Collier Law - -	15 59 59	126825
Wordeslow Hill -	93 45 46	35032
West Boldon Spire -	. . .	
Collier Law - -	87 39 7	7799
Wordeslow Hill -	3 44 15	119548
Pile of Stones on Fatherly Hill - -	. . .	
Collier Law - -	42 53 5	181093
Wordeslow Hill -	96 3 32	123933
Newbiggin Spire -	. . .	
Collier Law - -	34 1 55	153093
Wordeslow Hill -	94 50 34	85988
Seaton Delaval Summer House - -	. . .	
Collier Law from Brandon Down 63150,5 feet.		
Collier Law - -	20 24 17	81505
Brandon Down -	114 58 56	31350
Westerton Folly -	. . .	
Brandon Down from Wordeslow Hill 63478,1 feet.		
Brandon Down -	15 24 58	22627
Wordeslow Hill -	8 12 54	42096
Durham Cathedral -	. . .	
Brandon Down -	81 29 30	162813
Wordeslow Hill -	76 15 15	165771
Pile on a Hill near Stokesley	. . .	
Brandon Down -	124 41 44	49445
Wordeslow Hill -	23 55 37	100237
Brusselton Folly -	. . .	
Brandon Down - -	90 48 3	33343
Wordeslow Hill -	27 32 14	72114
Merrington Church Tower	. . .	
Brandon Down - -	23 46 52	27664
Wordeslow Hill -	88 30 26	68581
Easington Church Tower	. . .	
Brandon Down - -	22 43 12	83583
Wordeslow Hill -	112 52 26	35030
West Boldon Spire -	. . .	
Brandon Down - -	29 51 50	105399
Wordeslow Hill -	118 1 0	59449
North Shields Church Tow	. . .	
Brandon Down - -	40 1 28	69210
Wordeslow Hill -	76 45 6	45727
Sherf Hill Beacon Staff	. . .	
Collier Law from Pontop Pike 56824,6 feet.		
Collier Law - -	131 36 48	64983
Pontop Pike -	25 55 1	111160
Kilhope Law - -	. . .	
Collier Law - -	113 13 26	7800
Pontop Pike -	6 49 25	60328
Pile on Fatherly Hill -	. . .	
Wordeslow Hill from Pontop Pike 72621,9 feet.		
Wordeslow Hill -	1 28 39	30889
Pontop Pike - -	1 5 35	41751
Chester le Street Spire	. . .	
Wordeslow Hill -	102 0 59	38093
Pontop Pike - -	24 49 19	88752
Whitburn Spire -	. . .	
Wordeslow Hill - -	76 19 17	123926
Pontop Pike - -	70 12 52	127965
Newbiggin Spire -	. . .	
Wordeslow Hill -	79 10 2	59449
Pontop Pike - -	43 32 21	84150
North Shields Church Tower - -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Wordeslow Hill -	37 54 10	45728
Pontop Pike - -	37 33 10	46090
Sherf Hill Beacon Staff	. . .	
Wordeslow Hill -	95 1 15	41648
Pontop Pike - -	30 9 50	88545
Signal Staff on Marston Hill - -	. . .	
Wordeslow Hill -	93 2 4	41748
Pontop Pike - -	29 7 22	85661
Windmill on Marston Hill	. . .	
Collier Law from Rufflaw 169588,5 feet.		
Collier Law - -	26 41 41	153091
Rufflaw - -	64 29 37	76201
Seaton Delaval Summer House - -	. . .	
Wordeslow Hill from Rufflaw 152413 feet.		
Wordeslow Hill -	29 16 11	62596
Rufflaw - -	17 22 30	102485
Tynemouth Lighthouse	. . .	
Wordeslow Hill -	29 35 3	60548
Rufflaw - -	16 40 51	104141
Flagstaff on Tynemouth Castle - -	. . .	
Rufflaw from Alnwick Moor 72588,4 feet.		
Rufflaw - -	48 44 21	62537
Alnwick Moor -	56 18 17	56502
Lighthouse on Coquet Island - -	. . .	
Rufflaw - -	2 36 12	75775
Alnwick Moor -	132 5 10	4638
Earl's Mount Obelisk -	. . .	
Alnwick Moor -	30 30 26	22957
Rufflaw - -	12 26 41	54080
Beacon Staff on a Hill near Shillbottle -	. . .	
Alnwick Moor -	33 29 3	97555
Rufflaw - -	99 15 40	54533
Signal Staff near Newbiggin - -	. . .	
Alnwick Moor -	51 34 6	57026
Rufflaw - -	50 15 30	58095
Signal Staff near Hawxley	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Alnwick Moor -	50 9 12	44789
Rufflaw - -	35 0 55	55929
High Tower on Warkworth Castle - -	. . .	
Alnwick Moor -	88 5 18	65107
Rufflaw - -	42 44 26	95879
Double Pile on a Hill south-west of Linhope Cataract - -	. . .	
Alnwick Moor from Blackheddon 87293,3 feet		
Alnwick Moor -	32 3 18	70903
Blackheddon - -	54 8 25	46432
Flagstaff on Bambrough Castle - -	. . .	
Alnwick Moor -	27 31 51	71687
Blackheddon - -	54 23 53	40753
Signal Staff near Bambrough Castle -	. . .	
Alnwick Moor -	40 4 4	76444
Blackheddon - -	59 40 2	57011
Lighthouse on the West Staples -	. . .	
Alnwick Moor -	50 26 44	57544
Blackheddon - -	41 13 4	67333
Beadnell Spire -	. . .	
Alnwick Moor -	66 8 45	39445
Blackheddon - -	26 49 29	79944
Embleton Church Tower	. . .	
Alnwick Moor -	75 33 33	44548
Blackheddon - -	29 31 18	87551
Dunstanbrough Castle	. . .	
Alnwick Moor -	46 53 30	63809
Blackheddon - -	46 50 19	63865
Windmill on Sunderland Point - -	. . .	
Alnwick Moor -	54 9 59	57544
Blackheddon - -	41 1 57	71003
Signal Staff near Beadnell	. . .	
Alnwick Moor -	59 0 0	43908
Blackheddon -	30 11 41	74832
Windmill near Newton	. . .	

Mordington Hill from Blackheddon 68399 feet.

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Mordington Hill -	20 24 57	103940
Blackheddon -	128 39 56	46436
Flagstaff on Bambrough Castle - -	. . .	
Mordington Hill -	18 48 58	99009
Blackheddon - -	128 24 34	40753
Signal Staff near Bambrough Castle -	. . .	
Mordington Hill -	25 37 9	110426
Blackheddon - -	123 8 17	57021
Lighthouse on the West Staples - -	. . .	
Mordington Hill -	21 13 27	122637
Blackheddon - -	135 57 57	63872
Windmill near Sunderland Point - -	. . .	
Mordington Hill -	25 21 57	110832
Blackheddon - -	123 46 7	57117
Flagstaff on the West Staples - -	. . .	
Mordington Hill -	29 37 47	112778
Blackheddon - -	117 59 18	63141
Low Building on one of the Staples - -	. . .	
Mordington Hill -	30 8 3	111679
Blackheddon - -	116 41 26	62752
East Staples Lighthouse	. . .	
Mordington Hill -	21 24 35	79483
Blackheddon - -	100 55 24	29550
Beacon Staff at Old Law	. .	
Mordington Hill -	23 59 42	77753
Blackheddon - -	94 45 48	31728
Flagstaff on Holy Island Castle - -	. . .	
Mordington Hill -	22 18 23	65096
Blackheddon - -	71 41 30	26022
Windmill on Holy Island	. . .	
Mordington Hill -	4 16 50	63428
Blackheddon - -	42 36 2	6994
Kyloe Church Tower -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″	
Mordington Hill -	7 49 54	60344
Blackheddon - -	43 39 17	11911
Lowick Church Tower -	. . .	
Mordington Hill -	35 23 11	119019
Blackheddon - -	112 34 19	74658
Rock on the West End of the Cheviot -	. . .	
Mordington Hill -	10 12 34	42187
Blackheddon - -	15 32 44	27901
Cheswick Windmill -	. . .	
Mordington Hill -	136 55 32	43723
Blackheddon - -	16 34 23	104686
Warlaw Bank Barrow	. . .	
Mordington Hill -	52 55 56	35458
Blackheddon - -	31 1 59	54881
Norham Castle -	. . .	
Mordington Hill -	9 50 2	38081
Blackheddon - -	11 53 40	31555
North Scramerston Windmill - -	. . .	
Mordington Hill -	7 26 4	36080
Blackheddon - -	8 8 38	32955
South Scramerston Windmill - -	. . .	
Mordington Hill -	10 2 36	32997
Blackheddon - -	9 6 16	36366
Middle Scramerston Windmill - -	. . .	
Mordington Hill -	83 13 12	97438
Blackheddon - -	59 32 36	112245
Southmost Turret of Hume Castle - -	. . .	
Mordington Hill -	11 20 15	37762
Blackheddon - -	13 22 37	32161
Green's Windmill -	. . .	
Mordington Hill -	130 22 10	48566
Blackheddon - -	20 19 56	106491
Buncle Edge Clump -	. . .	
Mordington Hill -	94 49 47	35647
Blackheddon - -	26 26 58	79748
Blackadder Tower -	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distance in Feet.
	° ′ ″	
Mordington Hill	80 45 2	32341
Blackheddon	26 47 44	70808
Dyket Head Windmill		
Mordington Hill	66 24 3	31943
Blackheddon	27 45 3	62850
Herndean Windmill		
Mordington Hill	114 44 36	25425
Blackheddon	16 17 7	82345
Harelaw Barn		
Mordington Hill	104 17 48	56861
Blackheddon	33 45 27	99159
Dunse Spire		
Mordington Hill	67 4 25	52565
Blackheddon	45 17 29	68120
South Gable of Simprin Barn		
Mordington Hill	60 47 28	38355
Blackheddon	33 58 25	59909
Lady Kirk Spire		
Mordington Hill	94 49 35	34449
Blackheddon	30 57 21	34015
Whitelaw Windmill		
Mordington Hill	84 17	40773
Blackheddon	32 14	76061
Longridge Windmill		
Mordington Hill	59 41 54	34380
Blackheddon	30 10 30	59055
New Lady Kirk Windmill		
Lumsdane Hill from Blackheddon 113573,5 ft		
Lumsdane Hill	19 46 17	156974
Blackheddon	122 44 39	63131
Low Building on one of the Staples	.	
Lumsdane Hill	20 5 50	155796
Blackheddon	121 26 47	62750
East Staples Lighthouse	. . .	
Lumsdane Hill	27 31 24	153827
Blackheddon	107 48 55	74665
Rock on the West End of the Cheviot	. . .	

Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
Lumsdane Hill	[illegible] 40	24143
Blackheddon	11 48 59	104682
Warlaw Bank Barrow		
Lumsdane Hill	20 40 42	68799
Blackheddon	26 16 35	54877
Norbam Castle		
Lumsdane Hill	68 57 16	30[illegible]
Blackheddon	15 34 36	106402
Buncle Edge Clump		
Sayrs Law from Blackheddon 170637,4 feet.		
Sayrs Law	9 43 16	93818
Blackheddon	11 27 24	79755
Blackadder Tower	. . .	
Sayrs Law	14 48 1	140121
Blackheddon	45 30 27	50136
Berwick upon Tweed Spire	. . .	
Sayrs Law	21 54 3	119591
Blackheddon	36 46 39	74506
Signal Staff on Habchester Hill	. . .	
Lumsdane Hill from Mordington Hill 45764,1 ft		
Lumsdane Hill	[illegible] 47 45	68793
Mordington Hill	115 11 36	35452
Norbam Castle		
Lumsdane Hill	13 42 0	36781
Mordington Hill	53 23 8	25424
Harelaw Barn	. .	
Lumsdane Hill	88 26 6	44721
Mordington Hill	45 6 14	63108
Cockburn Law		
Lumsdane Hill	24 9 41	37104
Mordington Hill	51 53 35	19301
Edington Hill Thrashing Machine		
Lumsdane Hill	98 39 33	92443
Mordington Hill	56 51 12	109151
Twinlaw Cairns	. . .	
Sayrs Law from Mordington Hill 124008,6 ft.		
Sayrs Law	34 47 40	26715
Mordington Hill	8 29 40	103202
Spartleton Hill Staff	. . .	

Names of Stations and intersected Objects	Angles of Computation (° ′ ″)	Distances in Feet	Names of Stations and intersected Objects.	Angles for Computation (° ′ ″)	Distances in Feet
Haddon Beacon	48 51 46	57770	Brompton Ralph	8 33 45	81251
Sampford	59 11 40	50173	Sampford	152 5 23	25843
Newts Down	71 56 34		Kentisbeare	19 20 52	
Bagborough	33 21 11	102895	Sampford	24 28 6	24321
Haddon Beacon	104 0 41	57273	Kentisbeare	69 47 35	10734
Newts Down	42 20 38		Gaddon Hill	85 44 19	
Haddon Beacon	3 8 21	76622	Sampford	23 25 31	5911
Newts Down	167 43 37	19737	Gaddon Hill	7 5 19	19013
Christcross	9 8		Culmstock	149 29 10	
Newts Down	170 20 0	50165	Culmstock	21 52 41	19933
Christcross	13 50 59	62499	Gaddon Hill	73 30 5	10737
Sampford	15 49 1		Kentisbeare	69 29 11	
Newts Down	89 27 15	41[illegible]74	Sampford	2 39 43	32337
Christcross	64 46 45	45400	Kentisbeare	160 54 37	5[illegible]31
Kentisbeare	25 46 0		Wherry Farm	16 25 4[illegible]	
Newts Down	24 15 51	64448	Sampford	[illegible] 16 25	34077
Christcross	145 49 56	47157	Wherry Farm	112 23 13	2115
Whitestone	9 54 13		Upcot Pen	35 20 23	
Staple Hill	78 7 42	26558	Sampford	20 25 37	47920
Castlincroach	79 6 49	26466	Upcot Pen	123 1 16	19947
Yartcombe	22 45 29		Woolford Lodge Staff	36 33 7	
Staple Hill	23 37 32	46747	Upcot Pen	28 3 38	12[illegible]09
Yartcombe	139 58 27	24815	Woolford Lodge	34 23 59	10[illegible]04
Dumpdon	25 24		Hembury Fort	117 32 23	
Bagborough	20 10 4	102270	Hembury Fort	66 44 50	21536
Staple Hill	131 1 27	46737	Woolford Lodge	83 59 55	19[illegible]05
Dumpdon	28 48 29		North Ottery Moor	29 15 15	
Dumpdon	52 50 18	25508	Hembury Fort	17 8 16	3[illegible]59
Yartcombe	65 10 25	22398	North Ottery Moor	143 41 57	19331
Harner Hill	61 59 17		South Ottery Moor	19 9 52	
Dumpdon	9 51 6	16255	North Ottery Moor	53 21 46	23850
Harner Hill	116 19 48	9892	South Ottery Moor	75 5 0	19806
Stockland	53 49 6		West Ottery Moor	51 33 14	
Dumpdon	5 52 47	24599	Whitestone	113 59 28	49762
Harner Hill	67 20 35	271[illegible]	Christcross	34 0 15	81291
Beacon Hill	106 38 37		Obelisk on Haldon	32 0 17	
Dumpdon	150 33 12	10528	Whitestone	11 15 12	31693
Harner Hill	8 29 21	35060	Haldon Old Station	150 25 30	19675
Combe-Rawleigh	20 57 27		Haldon Obelisk	18 19 18	

Names of Stations and intersected Objects.	Angles for Computation °	′	″	Distances in Feet	Names of Stations and intersected Objects.	Angles for Computation °	′	″	Distances in Feet.
Whitestone -	10	18	56	39252	Whitestone -	37	48		22294
Haldon Old Station	134	34	18	9867	Christcross - -	24	49	12	32551
Haldon New Station	35	6	4[illegible]		Rock Barton -	117	22	48	
Haldon Old Station	39	35	40	34430	Haldon New Station	22	7	48	10540
Haldon New Station	127	12	46	27554	Little Haldon -	12	34	57	18227
Little Haldon -	13	11	34		Haldon Obelisk -	145	17	1	
Haldon New Station	28	47	14	29532	Haldon Obelisk -	18	58	50	18854
Whitestone -	46	46	1	19519	Little Haldon -	86	16	40	6145
Exeter Cathedral -	104	26	45		Holcomb Down -	74	44	30	
Haldon Old Station	96	43	8	26700					
Haldon New Station	63	53	58	29528					
Exeter Cathedral -	19	22	54						

ART. II. *First Class of Secondary Triangles for the Survey of the North of Devon. Plate* III.

The Sides of the Great Triangles used as Base Lines in calculating the Sides of the Secondary Triangles, are the following:

Distance from Black Down to -	St. Stephen's Down	62508 feet.
	Kit Hill - -	53128
	Butterton Hill - -	89146
Cawsand Beacon to	Rippin Tor -	64020
	Great Haldon -	84116
Rippin Tor to -	Great Haldon -	55628
Dunkery Beacon from Haldon Beacon		48439

	°	′	″	Distances		°	′	″	Distances
Black Down -	66	4[illegible]	56	48290	Black Down	30	56	8	55913
St. Stephen's Down	45	34	40	62162	Butterton Hill	94	1	1	108495
Bradbury Castle	67	35	24		Cawsand Beacon	55	2	51	
Bradbury Castle	19	59	11	94758	Black Down	59	40	9	55903
St. Stephen's Down	129	42	2	42095	Bradbury Castle	67	25	34	52255
Warbstow Beacon	30	18	47		Cawsand Beacon	52	54	17	
Kit Hill -	61	47	48	100969	Cawsand Beacon	41	23	3[illegible]	84116
Black Down -	86	31	15	89140	Rippin Tor	89	3	17	55628
Butterton Hill	31	40	57		Great Haldon	49	33	5	
Cawsand Beacon	31	[illegible]	20	108495	Rippin Tor -	4	33	1[illegible]	54787
Rippin Tor -	117	[illegible]	8	62951	Great Haldon	76	52	4	4466
Butterton Hill -	31	35	32		Palk's Tower	98	34	1	
Cawsand Beacon	86	3	1[illegible]	75012	Cawsand Beacon	88	10	13	82218
Rippin Tor -	42	49	51	2048	Bradbury Castle	58	52	14	96000
Black Down -	51	6	59		Beacon Moor	32	57	34	

Names of Stations and intersected Objects.	Observed Angles			Distances in Feet.	Names of Stations and intersected Objects.	Observed Angles.			
	°	'	"			°	'	"	
Cawsand Beacon	90	3	32	80171	St. Stephens	66	28	33	64725
Beacon Moor	44	15	57	114895	Bradbury Castle	58	31	27	69573
Palk's Tower	45	41	31		Pancras Week	55	0	0	
Cawsand Beacon	63	52	50	68487	St. Stephen's	63	13	21	64733
Great Haldon	48	43	50	81815	Warbstow Beacon	77	23	23	59224
West Morchard	67	23	20		Pancras Week	39	23	16	
Great Haldon	38	57		78537	St. Stephen's	72	36	33	56995
Cawsand Beacon	64	58		54497	Bradbury Castle	50	19	3	70673
Mary Down	76	3			Bridgerule	57	4	24	
Bradbury Castle	41	24	36	70241	St. Stephen's	57	5	19	57000
Beacon Moor	47	0	22	83522	Warbstow Beacon	76	54	41	49128
Spreyton Steeple	91	35			Bridgerule	46	0	0	
Cawsand Beacon	42	18	15	50492	St. Stephen's	54	53	59	85295
Bradbury Castle	66	18	30	37112	Warbstow Beacon	95	41	14	70129
Hatherleigh	71	23	15		Kilkhampton	29	24	47	
Bradbury Castle	17	27		70256	Warbstow Beacon	43	54	15	70129
Cawsand Beacon	125	0	30	25735	Beacon Moor, H.	61	25	50	[illegible]
Spreyton Steeple	37	31	55		Kilkhampton	74	39	54	
Bradbury Castle	[illegible]	21	47	63475	Warbstow Beacon	62	4	54	64387
Cawsand Beacon			35		St. Stephen's	77	47	15	58573
Winkley	52		38		Holsworthy Steeple	39	41	13	
Bradbury Castle	4	30	26	63476	St. Stephen's	13	26	28	58573
Beacon Moor	8	40	5	33098	Beacon Moor, H.	72	29	53	14276
Winkley	166	49	29		Holsworthy	94	3	39	
Bradbury Castle	36	40	59	86419	Warbstow Beacon	67	14	8	54822
Beacon Moor	62	39	20	58120	St. Stephen's	67	33	18	54695
Belleview	80	39	41		Pyeworthy	45	12	34	
Bradbury Castle	18	32	27	65884	St. Stephen's	23	30	6	[illegible]
Belleview	41	10		31823	Beacon Moor	63	1	[illegible]	24475
Langtree	20	17	13		Pyworthy	93	28	45	
Bradbury Castle	34	33	[illegible]	29297	St. Stephen's	62	8	36	54682
Hatherleigh	51	59	53	21093	Bradbury Castle	52	51	51	60644
High Hampton Steeple	93	26	16		Pyworthy	64	59	33	
Bradbury Castle	69	29	15	40845	St. Stephen's	14	23	28	64738
St. Stephens	38	38	34	61262	Holsworthy	104	24	10	16615
Beacon Moor Holsworthy	71	52			Pancras Week	61	12	12	
Warbstow Beacon	54	46	58	74975	Pancras Week	104	13	40	33015
St. Stephen's	91	4	0	61262	Holsworthy	52	18	20	40444
Beacon Moor, Holsworthy	34	9	2		Week St. Mary	23	28	0	

Names of Stations and intersected Objects.	Observed Angles	Distances in Feet.	Names of Stations and intersected Objects.	Observed Angles.	Distances in Feet.
	° ′ ″			° ′	
Pancras Week - -	63 11 50	23014	Beacon Moor - -	81 56	53112
Week St. Mary -	42 13 10	30568	Span Head - -	43 19	83849
Stamford - -	74 35 [illegible]		Belleview - -	54 43	
Bradbury Castle -	70 53 58	69577	Span Head - -	29 45 10	76552
Belleview - -	45 55 40	91511	North Molton Ridge -	140 4 36	59195
Pancras Week - -	63 10 22		Witheridge Spire -	10 10 14	
Dunkery Beacon - -	79 3 5	47309	Beacon Moor - -	31 50 26	57328
Haddon Beacon -	49 39 18	60943	Cotten Hill - -	75 26 37	31674
North Molton Ridge	51 17 37		Belleview - - -	72 42 57	
Dunkery Beacon -	22 34 57	54421	North Molton Ridge -	36 12 55	65376
North Molton Ridge	00 4 14	21063	South Molton Steeple -	120 5	41644
Span Head - -	5[illegible] 23 4[illegible]		Cotten Hill - -	23 41 14	
Span Head - -	2[illegible] 51 11	798[illegible]	South Molton	28 0 22	6315[illegible]
North Molton Ridge	149 22 [illegible]	60951	Cotton Hill	110 32 38	3166[illegible]
Haddon Beacon - -	7 13 44		Belleview - -	41 27	
North Molton Ridge	87 10 7	30357	Beacon Moor - -	121 4 34	114917
Span Head - -	57 10 6	30083	North Molton Ridge -	39 22 0	155176
South Molton - -	3[illegible] 3[illegible] 4[illegible]		Palk's Tower - -	19 33 2[illegible]	
Span Head - -	57 58 15	60131	Beacon Moor - -	83 49 38	114918
North Molton Ridge	104 54 21	60019	Haddon Beacon	53 29 29	112140
Beacon Moor Chumleigh	17 7 24		Palk's Tower - -	42 40 53	
North Molton Ridge	105 43 34	60640	North Molton Ridge -	4[illegible] [illegible] 1[illegible]	10[illegible]599
Haddon Beacon -	37 1 41	90[illegible]25	Beacon Moor - -	10[illegible] 7 [illegible]	70505
Beacon Moor Ch. -	37 14 42		Christ[illegible] - -	33 3[illegible] 3[illegible]	
Span Head - -	143 30 36	24311	North Molton Ridge -	[illegible]9 53 9	66617
Beacon Moor - -	9 15 35	89847	Beacon Moor - -	55 1 2[illegible]	33319
Paracombe - -	27 13 49		[illegible] Steeple -	[illegible] [illegible] 2[illegible]	
North Molton Ridge	11 31 [illegible]	44584	North Molton Ridge -	26 9 4[illegible]	81924
Span Head - -	158 31 [illegible]	24312	Beacon Moor - -	109 [illegible] 40	30[illegible]
Paracombe - -	9 57 [illegible]		West Morchard -	44 12 37	
North Molton Ridge	62 27 5[illegible]	65374	North Molton Ridge -	[illegible]1 32 27	73647
Paracombe - -	76 5 1[illegible]	59721	Beacon Moor -	83 52 43	4[illegible]150
Cotten Hill - -	41 27 [illegible]		Paddington - -	54 54 5[illegible]	
Span Head - -	111 [illegible] 33	54607	Cotten Hill - -	93 2[illegible] [illegible]	[illegible]928
North Molton Ridge -	70 56 4[illegible]	65371	[illegible] - - -	2[illegible] [illegible] [illegible]	[illegible]9[illegible]53
Cotten Hill - -	17 25 45		Heanton Steeple -	58 [illegible] [illegible]	
Beacon Moor - -	50 6 41	57329	Cotton Hill - -	90 5[illegible] [illegible]	32919
Span Head - -	53 [illegible]9 18	54613	Bell[illegible] - - -	45 3[illegible] [illegible]	40064
Cotten Hill - -	[illegible] 11 [illegible]		[illegible] - -	43 24 [illegible]	

Names of Stations and intersected Objects	Angles for Computation	Distances in Feet	Names of Stations and intersected Objects	Angles for Computation	Distances in Feet
Heanton -	34 57	10405	Span Head	79 16 40	96424
Cotton Hill -	13 43 40	25117	Parracombe	86 9 7	94055
Fremington Steeple	131 19 20		Northam	14 34 13	
Beacon Moor -	126 45	38346	Belleview	100 15 30	34971
Span Head -	18 27	97067	Span Head	20 54 30	96426
West Morchard	34 47 40		Northam	58 50 0	
Fremington -	93 2	28430	Belleview	44 35 [illegible]	44964
Cotton Hill -	46 50 30	38920	Northam	84 40 [illegible]	31700
Swinham Down -	40 7 30		Parkham	50 45 0	
Cotton Hill -	34 30 36	60972	Parkham	44 39	28201
Parracombe -	74 39 16	35841	Belleview	38 31	31825
Hangman Hill -	70 50 8		Langtree	96 50	
Hangman Hill -	34 42 40	38566	Cotton Hill	40 53 0	27052
Parracombe -	79 22 50	22344	Belleview	57 38	20998
Bratton Down -	65 54 30		Harwood	81 24	
Bratton Down -	24 4 0	35831	Belleview	69 17 0	44970
Hangman Hill -	68 11 0	15739	Harwood	83 6 0	4[illegible]370
Berry Down -	87 45 0		Parkham	27 37 0	
Hangman Hill -	13 33	851			
Berry Down -	147 11	176			
Hewish Down -	19 16				

ART. III. *First Class of Secondary Triangles for the Survey of Dartmoor Forest, and the South of Devon. Plate* III.

The Sides of the Great Triangles used as Base Lines in this Survey are the following, viz.

Little Haldon to	Rippin Tor	55 908 feet.
	Furland	79776
Rippin Tor to	Butterton Hill	62951
	Cawsand Beacon -	63799
Bolt Head to	Butterton Hill -	72479
Rippin Tor to	Sir R. Palk's Tower, Haldon	54788
	Chudleigh Steeple -	41471

Rippin Tor Old Station	106 45 0	235	Rippin Tor Old Station	66 15 0	232
Little Haldon	0 13 [illegible]	56055	Palk's Tower -	0 13 20	54695
Rippin Tor New Station	73 1 20		Rippin Tor New Station	113 31 40	
Rippin Tor New Station	44 8 20	32574	Rippin Tor New Station	84 44 10	32570
Denbury - -	101 5 40	39781	Palk's Tower -	32 5 50	61037
Little Haldon - -	34 46 0		Denbury - -	63 10 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Rippon Tor Old Station	87 54	233	Morleigh Camp -	72 10	28227
Chudleigh Steeple -	0 19	41463	Butterton Hill -	35 58 5	45737
Rippon Tor New Station	91 46 42		Church Stowe Steeple -	71 51 1	
Rippon Tor New Station	63 0 10	32574	Horner Down -	104 50 3	24616
Chudleigh Steeple -	47 24 50	39421	Rippon Tor - -	17 40 2	81566
Denbury - -	69 35		Higher East Close -	57 29 1	
Furland - -	71 56 33	68727	Morleigh Camp -	111 28 3	25610
Little Haldon -	51 46 15	83180	Horner Down -	50 40 1	21287
Brent Ruins - -	56 17		Higher East Close -	17 51 2	
Rippon Tor New Station	106 15	47739	Horner Down -	60 46 5	39520
Little Haldon - -	33 26	83181	Butterton Hill -	60 39 3	39566
Brent Ruins - -	40 18 5		Bigbury Spire -	58 33 4	
Rippon Tor - -	62 1 30	32567	Church Stowe -	31 0	27465
Brent Ruins - -	41 32 30	43371	Marlborough -	103 46	14564
Denbury - - -	76 26		Portlemouth -	45 14	
Rippon Tor Old Station	135 34 0	232	Church Stowe -	23 7 5	16380
Butterton Hill - -	0 8 50	63117	Portlemouth -	27 25	13974
Rippon Tor New Station	44 17 10		Charleton Steeple -	129 27 10	
Rippon Tor New Station	32 47 36	71556	Church Stowe -	66 25 5	14702
Butterton Hill -	85 6 14	38681	Portlemouth - -	31 58 2	25449
Horner Down - -	62 6 10		Buckland, Tout Saints	81 35 50	
Horner Down - -	24 26 40	50847	Church Stowe -	29 39 10	8729
Rippon Tor - -	40 14 15	32573	Portlemouth -	12 15 20	20349
Denbury - -	115 19 5		Kingsbridge Spire	38 5 30	
Horner Down - -	142 23 25	8438	Portlemouth -	40 15 0	18899
Butterton Hill -	6 28 35	45656	Church Stowe -	48 6 50	17867
Morleigh Camp -	31 8 0		Marlborough Station -	96 38 10	
Rippon Tor - -	24 30	52757	Marlborough Station -	65 22 20	26664
Denbury - -	125 12	26774	Portlemouth - -	72 11 2	25459
Totness Steeple -	30 18		Buckland, Tout Saints	42 26 20	
Totness - -	64 40 20	19141	Marlborough Station -	73 5 50	13837
Denbury - -	42 57 0	25391	Portlemouth -	41 40 10	19914
Marldon Beacon -	72 22 40		West Allington Steeple	65 14 0	
Totness - - -	26 52 20	17172	West Allington -	104 54 50	9149
Marldon Beacon -	63 40 30	8657	Marlborough -	29 18 10	18657
Willman Hill - -	89 20 10		Charleton Steeple -	45 47 0	
Horner Down - -	80 54 30	31270	Portlemouth - -	90 33 10	11957
Butterton Hill - -	42 27 50	45735	Church Stowe -	23 26 10	30063
Church Stowe Steeple	56 37 40		South Pool Station -	66 0 40	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Portlemouth - -	10	57	10	11159
South Pool Station -	64	42	50	2345
South Pool Steeple	104	20	0	
South Pool Station -	69	58	20	3089
Portlemouth - -	14	54	40	11179
Chivelstone Station -	95	7	0	
Chivelstone Station -	12	0	10	13814
Portlemouth - -	127	51	[illegible]	3638
Salcombe Chapel -	40	8	50	
Portlemouth - -	93	14	30	20342
Chivelstone Station -	58	32	0	23811
Kingsbridge Spire -	28	13	20	
Wallaton Cross -	54	32	50	9973
Morleigh - -	56	0	50	9798
Black-Auton Steeple	69	26	20	
Black Down -	36	4	50	12182
Church Stowe - -	34	2[illegible]	50	12690
Woodleigh Steeple -	109	31	2[illegible]	
Church Stowe - -	23	38	0	[illegible]
Woodleigh - -	42	42	0	[illegible]
Loddeswell Steeple -	113	[illegible]	0	
Marlborough Station -	67	43	[illegible]	[illegible]
Beacon Hill -	69	21	3[illegible]	[illegible]
Church Stowe Steeple -	42	55	[illegible]	
Marlborough Station -	4	4[illegible]	20	1042[illegible]
Beacon Hill - -	17	59	5[illegible]	[illegible]748
Thurlestone Steeple -	1[illegible]	1[illegible]	5[illegible]	
Marlborough Station -	[illegible]6	24	1[illegible]	1518
Beacon Hill - -	4	[illegible]2	30	11314
South Huish -	159	13	20	
Butterton Hill - -	8	9	24	17629
Holland Hill - -	72	46	50	2619
Beacon Park Station -	99	3	46	
Holland Hill - -	12[illegible]	[illegible]	0	20408
Beacon Park - -	[illegible]9	36	30	[illegible]006
Cornwood Steeple -	5	[illegible]	30	
Holland Hill - -	20	20	20	[illegible]
Beacon Park - -	114	8	2[illegible]	1230
[illegible]nington Steeple -	45	[illegible]	[illegible]	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Butterton Hill - -	110	53	40	23356
East Down Beacon -	59	22	0	25359
Modbury Spire - -	9	44	20	
Holland Hill - -	102	0	0	11314
Butterton Hill - -	28	16	14	23365
Modbury Spire - -	49	43	46	
Butterton Hill -	74	19	0	12020
East Beacon - -	83	23	0	11650
Ugborough Spire -	22	18	0	
Holland Hill - -	39	41	0	17037
Butterton Hill -	64	39	24	12021
Ugborough Spire -	75	29	36	
Butterton Hill -	11	50	20	19635
East Beacon -	1[illegible]	27	5[illegible]	16501
North Huish	10	41	5[illegible]	
Morleigh -	54	58	[illegible]	[illegible]
Butterton Hill -	[illegible]	10	50	39577
Bigbury	7[illegible]	[illegible]0	5	
Morleigh - -	89	38	30	45107
Butterton Hill -	14	49	50	63979
Malboro' - -	15	31	40	
[illegible] D[illegible] -	91	31	30	49978
Butterton Hill -	51	18	10	64006
Malboro' -	37	9	50	
Butterton Hill -	16	27	50	36175
[illegible] - -	64	34	20	11352
[illegible] -	98	57	50	
Morleigh -	108	18	20	44626
Butterton Hill -	3[illegible]	[illegible]	30	73183
Portlemouth - -	36	19	10	
Butterton Hill -	35	15	30	73175
Kingston Steeple -	119	10	0	48374
Portlemouth - -	25	34	30	
Butterton Hill -	16	1	40	41189
Bigbury -	90	6	30	11372
Station above Kingston	73	51	50	
Station above Kingston	121	14	10	32074
Butterton Hill -	25	22	30	63996
Malboro' - -	33	23	20	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in feet.
Station above Kingston	114 18 40	45858
Butterton Hill	34 49 40	73176
Portlemouth	30 51 40	
Bolt Head	19 26 20	82246
Butterton Hill	100 30 40	27839
Hemerdon Ball	60 3 0	
Hemerdon Ball	145 11 0	13545
Butterton Hill	11 13 40	39720
Boringdon	23 35 20	
Butterton Hill	31 [illegible]	[illegible]
[illegible]	101 11 3[illegible]	[illegible]
Gonnor Down	47 20 [illegible]	
Butterton Hill	[illegible] 23 [illegible]	52994
Boringdon	[illegible] 56 10	41239
Gonnor Down	[illegible] 10 [illegible]	
[illegible]		[illegible]
Butterton Hill	[illegible]	[illegible]
Station south of Yealm		
Boringdon		
Hemerdon Ball		
Newton Down		
Butterton Hill		
Hemerdon Ball		
Station above Pen Beacon	[illegible]	
Hemerdon Ball	153 [illegible]	[illegible]
Station above Pen Beacon	[illegible]	
Boringdon	[illegible]	
Boringdon	133 [illegible]	
Station above Pen Beacon	[illegible]	[illegible]
Newton Down	[illegible]	
Boringdon	[illegible]	
Newton Down	88 [illegible]	[illegible]
Station South of Yealm		
Boringdon	[illegible]	[illegible]
Gonnor Down	[illegible]	[illegible]
Newton Down	151 57 0	
Gonnor Down	103 38 0	4733
Newton Down	26 33 30	10289
West Down	49 48 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in feet.
Butterton Hill	94 27 10	18219
Horner Down	24 22 20	44017
Holland Hill	61 10 [illegible]	
Butterton Hill	59 19 [illegible]	18226
Hemerdon Ball	40 12 5[illegible]	24277
Holland Hill	80 28 [illegible]	
Butterton Hill	0 8 50	63117
Rippon Tor Old Station	135 34 [illegible]	232
Rippon Tor New Station	[illegible] 17 10	
East Beacon	136 [illegible]	4593
Butterton Hill	40 2[illegible]	50087
Rippon Tor New Station	[illegible] 71 40	
Station above Pen Beacon	82 25 0	27834
Hemerdon Ball	58 52 10	2222[illegible]
East Beacon	38 42 50	
Butterton Hill	161 29 50	[illegible]4591
Hemerdon Ball	2 35 30	22226
East Beacon	15 54 40	
[illegible]	15 12 20	34229
Rippon Tor	46 47 40	12217
[illegible]		
Rippon Tor	91 37 [illegible]	[illegible]
[illegible]'s Tower	21 26 0	50417
Hamilton Down	66 57 [illegible]	
Rippon Tor	66 34 0	21726
East Beacon	79 33 0	[illegible]
Hamilton Down	33 53 0	
Cawsand Beacon	0 3 57	[illegible]
Rippon Tor Old Station	18 2[illegible] 33	233
Rippon Tor New Station	161 [illegible] 30	
Rippon Tor New Station	0 34 40	63615
Cawsand Beacon	73 43 30	662
Cawsand Beacon Barrow	105 41 50	
Rippon Tor New Station	92 7 50	35606
Cawsand Beacon Barrow	28 43 10	74048
Ryder's Hill	59 9 0	
Rippon Tor New Station	29 33 30	54024
Cawsand Beacon Barrow	58 2 30	31400
Cut Hill	92 24 0	

Names of Stations and intersected Objects	Angles for Calculation. ° ′ ″	Distances in Feet
Rippon Tor New Station	62 38 30	35574
Cut Hill - -	39 59 10	49167
Ryder's Hill - -	77 22 20	
Rippon Tor - -	32 15 50	55202
Ryder's Hill -	110 35 40	31480
Hessary Tor - -	37 8 30	
Rippon Tor - -	30 23 30	54048
Hessary Tor - -	72 34 30	28658
Cut Hill -	77 2 0	
Ryder's Hill - -	33 17 30	49175
Hessary Tor - -	109 37 30	28657
Cut Hill - -	37 5 0	
Cut Hill - -	36 29 30	25005
Cawsand Beacon Barrow	52 45 10	18681
Tes Tor - -	90 45 20	
Tes Tor - -	1 11 10	19220
Cawsand Beacon Barrow	143 21 10	666
Cawsand Beacon -	35 27 40	
Cawsand Beacon -	43 16 0	15442
Tes Tor - -	53 1 40	13253
Oakhampton Park -	83 42 20	
Cawsand Beacon - -	102 27 0	19979
Tes Tor - -	39 40 0	30564
Castor Rock -	37 53 0	
Kit Hill Old Station -	38 3 20	181
Brent Tor - -	0 8 52	43279
Kit Hill New Station -	141 47 48	
Black Down -	0 7 46	53004
Kit Hill Old Station -	43 58 4	180
Kit Hill New Station -	135 54 10	
Black Down - -	81 28 0	18577
Kit Hill New Station	20 5 0	53500
Cocks Tor -	78 27 0	
St. Stephen's Down -	5 37 20	53167
Black Down - -	28 29 29	10919
Brent Tor - -	145 53 11	

Names of Stations and intersected objects.	Angles for Calculation ° ′ ″	Distances in Feet.
Black Down - -	105 51 30	18584
Brent Tor - -	48 10 30	23989
Cocks Tor -	25 58 0	
Kit Hill New Station -	26 4 0	53497
Brent Tor - -	101 29 0	23987
Cocks Tor - -	52 27 0	
Cut Hill -	33 1 30	30882
Hessary Tor -	80 40 20	17056
Cocks Tor - -	66 18 10	
Ryder's Hill - -	27 34 0	33941
Hessary Tor - -	84 56 0	15768
Leather Tor - -	67 30 0	
Hessary Tor -	84 41 30	15778
Cocks Tor - -	45 12 30	22137
Leather Tor - -	50 6 0	
Cocks Tor - -	140 58 0	18577
Hessary Tor - -	20 23 0	33589
Black Down - -	18 39 0	
Black Down - -	53 27 20	34732
Cocks Tor - -	94 18 20	27983
Morwell Down -	32 14 20	
Black Down - -	71 58 10	34734
Hessary Tor -	55 20 10	40155
Morwell Down -	52 41 40	
Cocks Tor - -	48 28 0	60811
Kit Hill - -	73 51 10	47391
St. Budeaux - -	57 40 50	
Cocks Tor - -	95 26 0	22150
Kit Hill - -	21 38 0	59811
Leather Tor -	62 56 0	
Kit Hill - -	52 7 0	47394
Leather Tor - -	50 37 0	48397
St. Budeaux - -	77 16 0	

ART. IV. *Second Class of Triangles for the interior Survey of Part of Somersetshire, of Devonshire, and Part of Cornwall.* *Plate* III.

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Huntspill Steeple	14	4	0	30206
Brent Knoll	136	32	0	10672
Lympsham Steeple	29	24	0	
Huntspill Steeple	42	14	0	23214
Brent Knoll	74	22	0	16203
Berrow Steeple	63	24	0	
Huntspill Steeple	121	43	0	23198
Cannington	27	47	0	42336
Berrow Steeple	30	30	0	
Huntspill Steeple	33	58	0	12917
Brent Knoll	33	39	0	13024
Burnham Steeple	112	23	0	
Huntspill Steeple	129	59	0	12918
Cannington	16	26	0	34989
Burnham Steeple	33	35	0	
Huntspill Steeple	39	26	0	26110
Brent Knoll	85	13	0	16643
Mark Steeple	55	21	0	
Huntspill Steeple	156	36	0	26125
Cannington	11	54	0	50317
Mark Steeple	11	30	0	
Huntspill Steeple	154	22	0	9350
Brent Knoll	7	41	0	30255
Pawlet Steeple	17	57	0	
Huntspill Steeple	41	40	0	9350
Cannington	18	47	0	19303
Pawlet Steeple	119	33	0	
Huntspill Steeple	72	3	0	13354
Cannington	31	0	0	24667
Puriton Steeple	76	57	0	
Huntspill Steeple	124	0	0	13342
Brent Knoll	20	52	0	31052
Puriton Steeple	35	8	0	
Huntspill Steeple	122	29	0	16405
Brent Knoll	24	30	0	33370
Puriton Mill	33	1	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Huntspill Steeple	73	34	0	16414
Cannington	37	22	0	25939
Puriton Mill	69	4	0	
Huntspill Steeple	98	7	0	18938
Brent Knoll	37	44	0	30636
Woolavington Steeple	44	9	0	
Huntspill Steeple	97	57	0	18939
Cannington	33	56	0	33601
Woolavington Steeple	48	7	0	
Huntspill Steeple	10	16	0	45274
Cannington	157	18	0	20910
Over Stowey	12	26	0	
Huntspill Steeple	12	11	0	40231
Cannington	148	53	0	16429
Nether Stowey	18	56	0	
Huntspill Steeple	14	0	0	19904
Cannington	39	0	0	7651
Chimney on the north side of Mr. Evered's House	127	0	0	
Huntspill Steeple	149	58	0	19892
Brent Knoll	14	24	0	40034
Chimney on the north side of Mr. Evered's House	15	38	0	
Quantock	29	39	25	28469
Cannington	63	41	33	15714
Stoke Courcy Steeple	86	39	2	
Quantock	33	5	1	28469
Danesbury	124	36	9	18880
Stoke Courcy Steeple	22	18	50	
Huntspill Steeple	42	46	0	41126
Cannington	100	1	0	28357
North Petherton Steeple	37	13	0	
Cannington	31	8	0	39262½
North Petherton Steeple	104	30	0	20968
Weston in Zoyland Steeple	44	22	0	

Names of Stations and intersected Objects.	Angles for Calculation			
Cannington - -	43	2		32132
North Petherton Steeple	78	8		22616
Chedzoy Steeple - -	58	50	0	
North Petherton Steeple	26	22		22602
Weston in Zoyland Steeple	85	55		10064
Chedzoy Steeple - -	67	43		
North Petherton Steeple	35	50	0	24008
Weston in Zoyland Steeple	83	46	0	14190
Burrow Mount Chapel	60	15	0	
Cannington - -	18	3	0	49306
North Petherton Steeple	140	29	0	24009
Burrow Mount Chapel	21	28		
North Petherton Steeple	60	24	0	19473
Weston in Zoyland Steeple	56	10	0	2038[illegible]
East Ling Steeple -	63	26	0	
North Petherton Steeple	24	25	0	19475
Burrow Mount Chapel	52	4	0	102[illegible]7
East Ling Steeple -	103	31	0	
Cannington - -	37	24	0	17383
North Petherton Steeple	36	1	0	18[illegible]24
Enmore Steeple - -	106	25	0	
North Petherton Steeple	140	31	0	17[illegible]83
Weston in Zoyland Steeple	[illegible]	10	0	36075
Enmore Steeple - -	21	1[illegible]	0	
Cannington - -	137	35	0	17396
Huntspill Steeple -	17	7	0	39868
Enmore Steeple -	25	18	0	
Weston in Zoyland Steeple	54	45	0	32020
North Petherton Steeple	84	34	0	20267
Creech, St. Michael -	40	[illegible]1	0	
Danesbury - -	24	5	0	9291
Crowcomb - - -	5[illegible]	39	0	4649
Quantockshead - -	101	16	0	
Danesbury - - -	[illegible]1	48	[illegible]	13[illegible]7
Crowcomb -	105	5	30	518[illegible]
West Quantock Station	53	6	30	
Danesbury - - -	34	5	0	16[illegible]7
West Quantock -	93	4		9483
E. Quantockshead Steeple	52	51	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Danesbury - -	31	48	0	16889
Quantockshead - -	119	38	0	10239
E. Quantockshead Steeple	28	34	0	
Crowcomb - -	25	31	0	389[illegible]6
Danesbury - -	145	2	0	2931[illegible]
Stockland Steeple - -	9	27	0	
Quantockshead - -	45	54	0	35026
Danesbury - -	120	57		29329
Stockland Steeple - -	13	9		
Danesbury - -		24	0	18293
West Quantock - -		8	0	12806
Summer House - -		28	0	
Danesbury - -	42	7	0	18282
Quantockshead - -	10[illegible]	12	0	11982
Summer House - -	2[illegible]	41	0	
Danesbury - -	[illegible]6	4	0	188[illegible]1
Quantockshead - -	[illegible]	31	0	[illegible]
Little Stoke Steeple -	[illegible]	25	0	
Danesbury - -	8[illegible]	23	0	11729
West Quantock -	42	8	0	17465
Stringston Steeple -	5[illegible]	29		
Danesbury - -	85	6	0	11722
Quantockshead - -	54	38	0	143[illegible]3
Stringston Steeple -	40	16	0	
Danesbury - -	87	13		24433
West Quantock -	[illegible]3	15		27329
Chimney of a white House	29	32	0	
Danesbury - -	84	56	0	24[illegible]17
Quantockshead - -		39	0	25346
Chimney of white House		25	0	
Danesbury - -		17	0	714[illegible]
Crowcomb - -	[illegible]	0	0	6513
Crowcomb Knap -	109	43	0	
Crowcomb - -	119	5	0	33920
Crowcomb Knap -	52	11	30	37521
Summer House near Nettlecomb - -	8	43	30	
Crowcomb - -	46	36	0	33892
St. Decuman's Steeple -	90	8	30	24625
Summer House -	43	15	30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Crowcomb - -	114 34 0	36769
Crowcomb Knap -	56 54 0	39918
Clump of Trees near Nettlecomb - -	8 32 0	
Crowcomb - -	51 7 0	36769
St. Decuman's Steeple	89 42 40	28622
Clump of Trees -	39 10 20	
Crowcomb - -	123 52 0	24·20
Crowcomb Knap -	45 20 0	28000
Tree near Nettlecomb	10 48 0	
Crowcomb - -	41 49 0	24720
St Decuman's Steeple	73 45 20	17167
Tree - - -	64 25 40	
Brompton Ralph -	36 2 17	30155
Crowcomb - -	84 43 22	17817
Quantock new Station	59 14 21	
Quantock new Station	92 50 0	15118
Crowcomb - -	39 7 30	23931
Lydiard St. Lawrence -	48 2 30	[illegible]
Quantock new Station	16 1 0	29348
Crowcomb - -	141 14 0	12712
Sampford Bret Steeple	22 45 0	
Brompton Ralph -	137 30 0	33288
Quantock new Station	22 21 0	59141
Blackhill - -	20 9 0	
Brompton Ralph -	59 3 0	33278
Haddon Beacon -	51 30 0	36466
Blackhill - -	69 27 0	
Haddon Beacon -	20 33 0	28127
Black Hill - -	44 16 0	14145
Lype Hill - -	115 11 0	
Black Hill - -	83 53 30	20131
Lype Hill - -	59 3 0	23339
Grabbist Hill - -	37 3 30	
Haddon Beacon -	101 5 0	28130
Heydon Hill - -	42 44 0	40680
Lype Hill - -	36 11 0	
Blackhill - -	60 55 0	12832
Lype Hill - -	54 48 30	13722
Barrow near Luxborough	64 16 30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Black Hill - -	144 48 30	12838
Grabbist - -	13 35 0	31504
Barrow near Luxborough	21 36 30	
Blackhill - - - -	59 0 0	5381
Lype Hill - -	22 4 30	12273
Barrow on Croydon Hill	98 55 30	
Lype Hill - -	36 59 0	12270
Grabbist - -	28 36 0	15420
Barrow on Croydon Hill	114 25 0	
Blackhill - -	106 3 30	27837
Grabbist - -	43 52 0	38603
St. Decuman's Steeple	30 4 30	
St Decuman's Steeple	129 27 0	23226
Blackhill - -	22 50 0	46216
Crowcomb - -	27 43 0	
Lype Hill - -	14 28 0	37177
Grabbist - -	143 44 0	15700
North Hill - -	21 48 0	
Grabbist - -	9 25 0	16730
North Hill - -	100 22 0	2853
South Station on North Hill - -	64 13 0	
Grabbist - -	4 8 0	17124
North Hill - -	138 10 0	1850
North Station on North Hill - -	37 42 0	
North Hill - -	31 47 0	1851
South Station - -	37 19 0	1608
North Station - -	110 54 0	
Lype Hill - -	18 52 0	37016
Grabbist Hill - -	134 19 0	16729
South Station - -	26 49 0	
North Station -	31 8 0	10040
South Station - -	143 23 0	8703
Porlock Steeple -	5 29 0	
North Station - -	130 17 0	16254
Grabbist Hill - -	24 10 0	30287
Chimney of House on Porlock Quay - -	25 33 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
South Station	140	33	0	15438
Grabbist Hill	18	54	0	30283
Chimney of House	20	33	0	
Grabbist Hill	129	33	0	14337
North Hill	24	0	0	27179
Dunster Gazebo	26	27	0	
Grabbist Hill	5	49	0	14294
St. Decuman's Steeple	3	24	0	24425
Dunster Gazebo	170	47	0	
Black Hill	23	36	0	24996
Grabbist Hill	105	30	0	10385
Minehead Steeple	50	54	0	
North Hill	55	27	0	11688
South Station	111	25	0	10341
Luckham Steeple	13	8	0	
North Hill	87	14	0	11694
North Station	83	43	0	11751
Luckham Steeple	9	3	0	
Grabbist Hill	5	51	0	17966
Lype Hill	18	31	0	5766
Kippen's Cross	155	38	0	
Grabbist Hill	20	52	0	17326
Lype Hill	40	48	0	9445
Cutcomb Steeple	118	20	0	
Lype Hill	59	19	0	9444
Kippen's Cross	83	21	0	8176
Cutcomb Steeple	37	20	0	
Haddon Beacon	101	9	0	12092
Lype Hill	21	16	30	32696
Upton	57	34	30	
Haddon Beacon	65	33	0	21933
Heydon Hill	52	22	0	25212
Bampton	62	5	0	
Haddon Beacon	65	28	0	21927
Upton	81	29	0	20170
Bampton	33	3	0	
Haddon Beacon	39	28	0	34164
Upton	123	20	0	25992
Honiton Down	17	12	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Haddon Beacon	26	0	0	34176
Bampton	120	23	0	17367
Honiton Down	33	37	0	
Haddon Beacon	66	48	30	18648
Honiton Down	32	35	0	31830
Bampton Tree	80	36	30	
Haddon Beacon	40	49	0	18648
Bampton	57	19	0	14482
Bampton Tree	81	52	0	
Tidcomb	46	1	30	38020
Haddon Beacon	41	35	30	41217
Stoodley Beacon	92	23	0	
Haddon Beacon	52	46	0	32843
Stoodley Beacon	50	46	30	33755
West Anstey	76	27	30	
Haddon Beacon	70	49	0	32839
Bampton Tree	75	47	0	31995
West Anstey	33	24	0	
Haddon Beacon	18	3	0	18658
Stoodley Beacon	13	50	0	24179
Bampton Tree	148	7	0	
Haddon Beacon	14	38	30	40229
Stoodley Beacon	77	17	0	10435
Small Tree on Bickham Moor	88	4	30	
Haddon Beacon	38	8	0	32836
Tree on Bickham Moor	54	37	0	24870
West Anstey	87	15	0	
Haddon Beacon	31	8	0	49723
Tidcomb	60	18	0	29596
Newcot Highway	88	34	0	
Tidcomb	14	16	0	29593
Stoodley Beacon	37	59	0	11850
Newcot Highway	127	45	0	
Bampton	148	40	0	13436
Honiton Down	13	37	0	29677
Morebath Steeple	17	43	0	
Haddon Beacon	13	59	0	35766
Bampton	145	55	0	15422
East Tree on Chimney Down	20	6	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Haddon Beacon	12	1	0	35745
Honiton Down	96	7	0	7485
Tree on Chimney Down	71	52	0	
Haddon Beacon	92	55	30	27576
Stoodley Beacon	32	52	0	50747
Barn on Hill near Clayhanger	54	12	30	
Haddon Beacon	31	24	0	27552
Upton	128	31	0	18347
Barn	20	5	0	
Haddon Beacon	95	52	30	15565
Stoodley Beacon	19	53	0	45524
Tree near a Farm House	64	14	30	
West Anstey	70	1	30	4032
Stoodley Beacon	6	40	30	32598
East Anstey	103	18	0	
Haddon Beacon	51	51	30	28839
Stoodley Beacon	44	6	0	32593
East Anstey	84	2	30	
West Anstey	49	31	30	14273
East Anstey	115	44	0	12052
Beech Tree near 12 Acre Cross	14	44	30	
Haddon Beacon	8	31	0	18112
East Anstey	13	47	30	11252
Tree in the middle of a Field near Dulverton	157	41	30	
Haddon Beacon	74	40	0	28364
East Anstey	52	2	30	34693
Stert Barn	53	17	30	
Haddon Beacon	17	26	0	27407
Upton	149	42	30	16279
Small Tree on Layton Down	12	51	30	
Haddon Beacon	118	35	0	27409
Lype Hill	30	16	0	47752
Tree on Layton Down	31	9	0	
Haddon Beacon	43	55	0	16664
West Anstey	29	1	0	23830
Clump of Firs on Hill near Brushford	107	4	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Haddon Beacon	41	4	0	15953
Bampton Tree	57	43	0	12390
Brushford	81	13	0	
Haddon Beacon	59	28	0	17010
Bampton Tree	55	40	0	17742
Dulverton	64	52	0	
Bampton Tree	2	3	0	17724
Brushford	173	12	0	5355
Dulverton	4	45	0	
Bampton Tree	5	33	0	18023
Dulverton	96	25	0	1754
Dulverton Steeple	78	2	0	
Bampton Tree	7	36	0	17998
Brushford	156	23	0	5942
Dulverton Steeple	16	1	0	
West Anstey	68	0	30	7518
East Anstey	80	6	0	7070
East Anstey Steeple	31	53	30	
Haddon Beacon	121	17	0	29348
Upton	42	32	30	37096
Oakford Steeple	16	10	30	
Haddon Beacon	29	30	0	6791
Upton	28	25	0	7028
Upton Steeple	122	5	0	
Haddon Beacon	113	5	0	10033
Heydon Hill	18	0	0	29868
Brompton, Regis	48	55	0	
Haddon Beacon	14	7	0	33561
Tidcomb	18	21	0	26000
Clump of Firs on a Hill between Bampton and Tiverton	147	32	0	
Haddon Beacon	68	38	0	33503
Upton	90	15	0	31257
Clump of Firs	21	7	0	
Haddon Beacon	4	26	0	33865
Tidcomb	0	22	0	23607
Small Tree on a Hill between Bampton and Tiverton	169	12	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Culmstock	57	27	30	28024
Sampford	111	12	0	25339
Ashbrittle Steeple	11	20	30	
Culmstock	68	22	10	21771
Sampford	95	57	49	20348
Holcombe Rogus	15	40		
Culmstock	34	9	55	13031
Sampford	123	38	4[illegible]	8790
White Ball Inn	22	11	1[illegible]	
Culmstock	14	51	34	17667
Gaddon Hill	66	31	42	4940
Uffculme Steeple	98	36	35	
Culmstock	12	54	9	5711
Kentisbere	5	4	19	14424
Culmstock Steeple	162	1	32	
Quantock	31	59	11	47425
Staple Hill	45	1	22	35513
Wellington Steeple	102	59	27	
Brompton Ralph	69	39	13	48141
Quantock	72	9	9	47419
Wellington Steeple	38	11	38	
Quantock	8	50	25	40289
Staple Hill	13	38	21	26257
St. Mary's Steeple, Taunton	157	31	14	
Quantock	112	58	35	40315
Brompton Ralph	38	17	37	59895
St. Mary's Steeple	28	43	44	
Qantock	22	40	37	11340
Staple Hill	4	33	23	55037
Cothelestone Lodge	152	46	0	
Quantock	99	6	6	23492
Staple Hill	18	34	15	72835
Willet Hill Summer House	62	19	39	
Brompton Ralph	14	40	32	8140
Quantock	5	2	14	23487
Willet Hill Summer House	160	17	14	
Quantock	56	18	58	26793
Staple Hill	23	50	5	55172
Fitzhead Steeple	99	50	57	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Qnantock	42	38	13	76663
Staple Hill	80	14	37	52690
Lady Chatham's Obelisk	57	7	10	
Brompton Ralph	30	42		34409
Quantock	84	31		17650
Bishop's Lydiard	64	46	39	
Brompton Ralph	28	11		27429
Quantock	61	17	41	14771
Combe Florey Steeple	90	31	12	
Brompton Ralph	56	11	49	23886
Quantock	47	49	22	26783
Fitzhead Steeple	75	58	49	
Brompton Ralph	49	27	55	30106
Quantock	62	54	23	25701
Halse Steeple	67	37	42	
Brompton Ralph	87	22	3	20516
Quantock	34	2	54	36604
Wivelscomb Steeple	58	35		
Wellington Steeple	133	57	0	17432
Staple Hill	14	56		49238
Milverton Steeple	81	17		
Wellington Steeple	34	10	0	11601
Milverton Steeple	39	45	0	10188
Langford Budville	106	5	0	
Wellington Steeple	11	45	0	6021
Milverton Steeple	6	4	0	11602
Ninehead Steeple	162	11	0	
Wellington Steeple	118	[illegible]		10763
Milverton Steeple	22	41		24489
Buckland Steeple	38	39		
Wellington Steeple	68	54		24679
Milverton Steeple	69	38		24560
Norton Fitzwarren	41	28		
Wellington Steeple	78	15		12535
Milverton Steeple	39	31		19287
Bradford Steeple	62	14	0	
Wellington Steeple	56	31		15000
Milverton Steeple	53	48		15503
Hill Farence	69	41		

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Staple Hill - -	44	22	41	43255
Castlineroach -	124	3	44	36517
Fivehead Steeple -	11	33	35	
Staple Hill - -	130	22	0	33651
Castlineroach -	38	28	47	41206
Norton Fitzwarren -	11	9	18	
Staple Hill - -	39	27	17	33599
Castlineroach -	125	56	33	26372
Curry Mallet Steeple -	14	36	10	
Staple Hill - -	75	17	0	16715
Castlineroach -	68	58	0	17320
Thurlbeer Steeple -	35	45	0	
Staple Hill - -	59	3	56	20438
Castlineroach -	90	8	33	17531
West Hatch Steeple -	30	47	31	
Staple Hill - -	35	54	0	31494
Castlineroach -	132	52	0	39366
Isle Abbot's Steeple -	11	14	0	
Staple Hill - -	18	52	0	36620
Castlineroach -	153	55	0	26933
Ilton Steeple -	7	13	0	
Staple Hill - -	74	24	0	27507
Castlineroach -	83	24	0	20671
Thorne Falcon Steeple -	22	12	0	
Staple Hill - -	59	17	13	49272
Castlineroach -	109	8	26	44840
Stoke St. Gregory Steeple	11	34	21	
Staple Hill - -	19	4	15	26280
Castlineroach -	149	8	5[illegible]	16745
Ashill Steeple -	11	46	4[illegible]	
Dumpdon -	18	7	0	46168
Staple Hill -	78	44	0	14638
Clump of Firs on Buckland Hill - -	83	9	0	
Dumpdon - -	6	8	0	35939
Staple Hill -	19	14	0	11656
Brown Down -	154	38	0	
Dumpdon - -	7	5	0	44542
Staple Hill -	65	12	0	6050
Barrow on Hill near Otterford - -	107	43	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Staple Hill - -	45	58	0	6026
Brown Down -	30	7	0	8634
Barrow on Hill -	103	55	0	
Brown Down -	60	43	0	19617
Barrow on Hill -	93	13	0	17137
Comb Beacon -	26	4	0	
Staple Hill - -	59	30	0	14626
Brown Down - -	71	26	0	13294
Clump on Buckland Hill	49	4	0	
Brown Down -	19	24	0	19620
Clump on Buckland Hill	128	39	0	8345
Comb Beacon -	31	57	0	
Brown Down -	39	24	0	27397
Clump on Buckland Hill	114	22	0	19090
Snowdown - -	26	14	0	
Brown Down - -	20	0	0	27299
Combe Beacon -	123	10	30	11196
Snowdown -	36	49	30	
Combe Beacon -	51	26	0	20387
Snowdown - -	95	25	30	16012
Prize Hill -	33	8	30	
Comb Beacon - -	93	37	30	17323
Prize Hill - -	39	35	0	27915
Bailey Down - -	46	47	30	
Bailey Down -	20	2	30	22436
Comb Beacon -	112	56	30	8349
Clump on Buckland Hill	47	1	0	
Snowdown - -	54	22	0	5402
Prize Hill - -	18	50	30	13594
Chard Steeple -	106	47	30	
Kentisbere - -	145	3	0	14490
Wherry Farm -	22	18	0	17346
Hemyock -	12	39	0	
Kentisbere -	135	2	0	30044
Wherry Farm -	37	17	0	35050
Clay-Hydon Steeple -	7	41	0	
Kentisbere - -	10	1	0	30066
Hemyock -	163	54	0	18858
Clay-Hydon Steeple -	6	5	0	

Names of Stations and intersected Objects	Angles for Calculation °	'	"	Distances in Feet
Clay-Hydon Steeple -	28	13	0	7111
Hemyock - -	14	57	0	13033
Barn on a Hill -	136	50	0	
Kentisbeare - -	55	33	0	25215
Clay-Hydon Steeple -	52	46	0	26116
Beech Tree -	71	41	0	
Kentisbeare - -	119	14	0	47029
Wherry Farm -	54	12	0	50599
East Chimney of Holman Clavell - -	6	34	0	
Wherry Farm - -	31	54	0	50600
Hemyock - -	133	46	0	37026
Holman Clavell -	14	20	0	
Kentisbeare - -	33	4	0	38381
Hemyock -	134	38	0	29447
Holly Tree near the Taunton Turnpike Road	12	18	0	
Hemyock - -	29	16	0	29431
Clay-Hydon Steeple -	115	21	0	15921
Holly Tree -	35	23	0	
Upcot Pen - -	62	6	0	554
Hembury Fort -	2	15	0	124[illegible]1
Upcot Pen New Station.	115	39	0	
Upcot Pen -	111	23	0	554
Wherry Farm -	12	33	0	2374
Upcot Pen New Station	56	4	0	
Upcot Pen New Station	113	16	0	25[illegible]77
Wherry Farm - -	62	4	0	[illegible]
Clist-Hydon Steeple -	4	40	0	
Upcot Pen New Station	75	1	0	25812
Hembury Fort -	76	56	0	25597
Clist-Hydon Steeple -	28	3	0	
Upcot Pen New-Station	117	50	0	25099
Hembury Fort -	42	33	0	32821
Columpton Steeple -	19	37	0	
Kentisbeare -	74	24	0	25209
Wherry Farm -	90	21	0	24281
Columpton Steeple -	15	15	0	
Culmstock -	34	51	28	38877
Kentisbere - -	118	18	25	25238
Columpton Steeple -	26	50	7	

Names of Stations and intersected Objects.	Angles for Calculation. °	'	"	Distances in Feet.
Hembury Fort -	18	14	0	22384
Upcot Pen New Station	141	29	0	11246
Kentisbere Steeple -	20	17	0	
Kentisbere -	68	45	0	9885
Wherry Farm -	71	41	30	9704
Kentisbere Steeple -	39	33	30	
Wherry Farm -	60	20	30	20085
Upcot Pen New Station	113	26	0	19023
Plymtree Church -	6	13	30	
Hembury Fort -	103	12	0	18153
Upcot Pen New Station	46	47	0	24251
Tallaton Steeple -	30	1	0	
Kentisbere - -	127	0	0	27459
Wherry Farm -	43	26	30	31892
Sampford Peverel -	9	33	30	
Gaddon Hill -	162	52	29	21714
Kentisbere - -	11	28	44	32127
Holbuxton Steeple -	5	38	47	
Kentisbere - -	101	21	9	19830
Wherry Farm -	61	32	50	22113
Williton Steeple -	17	5	52	
Hembury Fort -	26	27	31	24628
North Ottery Moor -	92	40	15	10985
St. Mary Ottery Steeple	60	52	14	
Hembury Fort -	111	53	4	37266
North Ottery Moor -	44	18	26	49507
Bradninch Steeple -	23	48	30	
Hembury Fort -	79	44	12	8663
North Ottery Moor -	23	5	26	21735
Pehembury Steeple -	77	10	22	
North Ottery Moor	120	30	14	21741
South Ottery Moor -	31	36	52	35698
Pehembury Steeple	27	46	54	
North Ottery Moor -	145	32	54	19631
South Ottery Moor -	17	21	44	37215
Admiral Graves's House	17	5	22	
Hembury Fort -	50	42	4	18352
North Ottery Moor -	55	1	44	17323
Honiton Chapel -	74	12	31	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
South Ottery Moor -	65	46	32	47012
West Ottery Moor -	89	18	32	42875
General Simcoe's House	24	54	56	
Dumpdon - -	37	58	0	21637
Harner Hill - -	57	17	0	15760
Widworthy - -	84	45	0	
Dumpdon - -	8	43	0	35261
Harner Hill -	150	14	0	10763
Membury - -	21	3	0	
Harner Hill	152	29	0	10762
Widworthy - -	11	7	0	257[illegible]
Membury - -	16	24	0	
Harner Hill -	97	37	0	28725
Widworthy -	55	30	0	34547
Chimney of Hunter's Lodge - -	26	53	0	
Harner Hill -	54	52	0	28711
Membury - -	103	47	0	24176
Chimney of Hunter's Lodge -	21	[illegible]	0	
Widworthy - -	44	23	0	34540
Membury -	67	23	0	24184
Chimney of Hunter's Lodge - -	[illegible]	14	0	
Harner Hill - -	[illegible]	52	[illegible]	25125
Membury -	[illegible]	28	0	17893
Chimney of Cuthay's House - -	[illegible]	40	0	
Harner Hill - -	123	4[illegible]	0	40765
Widworthy - -	41	28	0	51216
Lambert's Castle -	14	50	0	
Harner Hill - -	128	20	0	30619
Widworthy -	34	39	0	42243
Hawkchurch - -	17	1	0	
Widworthy -	23	33	0	[illegible]
Membury - -	127	28	0	21265
Hawkchurch -	28	59	0	
Harner Hill -	66	9	0	25571
Widworthy - -	76	57	0	24007
Musbury Steeple -	36	54	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Membury - -	53	54	0	27096
Widworthy -	65	50	0	23996
Musbury Steeple -	60	16	0	
Harner Hil - -	106	43	0	37392
Membury - -	59	0	0	41779
Seaton Steeple -	14	17	0	
Harner Hill -	34	55	0	46472
Widworthy - -	130	2	0	34741
Beer Signal Staff -	15	3	0	
Harner Hill -	56	47	0	14899
Widworthy - -	58	38	0	14598
Shute Hill Signal Staff	64	35	0	
Widworthy -	47	31	0	14598
Membury - -	34	3	0	19227
Shute Hill Signal Staff	98	26	0	
Harner Hill - -	134	44	20	18753
Beacon Hill - -	39	56	4	20752
Axminster Steeple -	5	19	36	
Widworthy - -	140	2	0	22145
Membury -	18	24	0	45066
Wishcomb Tower -	21	34	0	
Dumpdon - -	40	8	0	15929
Widworthy - -	47	36	0	13904
Turnpike House on Hill South of Honiton -	92	16	0	
Dumpdon - -	27	2	0	11989
Widworthy -	26	37	0	12163
Fir Tree near Russell Buildings - -	126	21	0	
Widworthy - -	23	6	0	22171
Wishcomb - -	78	37	0	8873
Broad Down - -	78	17	0	
Widworthy - -	21	7	0	34740
Wishcomb - -	129	21	0	16185
Beer Signal Staff -	29	32	0	
Wishcomb - -	38	31	0	27759
Broad Down - -	126	37	0	21537
South Ottery Moor -	14	52	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet
South Ottery Moor	125	43	0	8615
Broad Down - -	14	45	0	27471
North Station Peak Hill	39	32	0	
South Ottery Moor -	110	51	0	8624
Wishcomb - -	14	39	0	31864
North Station Peak Hill	54	30	0	
Broad Down - - -	21	42	0	19902
North Station Peak Hill	39	20	0	11610
Salcomb Hill - - -	118	58	0	
South Ottery Moor -	64	54	0	13045
Broad Down - -	36	26	0	19891
Salcomb Hill -	78	40	0	
South Ottery Moor -	62	57	0	11700
Salcomb Hill -	53	27	0	12971
South Station Peak Hill	63	36	0	
Salcomb Hill - -	155	45	0	14333
Broad Down -	10	7	30	33486
High Peak Station -	14	7	30	
Salcomb Hill - -	13	10	0	12969
North Station Peak Hill	109	1	0	3125
South Station Peak Hill	57	49	0	
South Ottery Moor	113	51	0	14464
Broad Down - -	25	47	0	30413
Peak Hill Signal Staff	40	22	0	
South Ottery Moor -	13	58	0	14475
South Station Peak Hill	123	54	0	4209
Peak Hill Signal Staff	42	8	0	
South Ottery Moor -	19	48	0	22212
Broad Down - -	85	9	0	7551
Clump of Firs on Farway Hill - -	75	3	0	
South Ottery Moor	20	17	0	20870
Broad Down - -	74	50	0	7496
Cottage on Broad Down	84	53	0	
Wishcomb Tower -	54	19	0	7256
Broad Down - -	51	47	0	7502
Cottage on Broad Down	73	54	0	
Widworthy - - -	20	12	0	15059
Wishcomb Tower -	32	59	0	9552
Widden Pen - -	126	49	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Widworthy - -	29	20	30	8192
Widden Pen -	26	53	0	8878
North Leigh - -	123	46	30	
Widworthy - -	9	9	0	8197
Wishcomb Tower -	5	18	0	14113
North Leigh - -	165	33	0	
North Leigh - -	79	10	0	3418
Widden Pen -	22	10	30	8893
North Leigh Steeple -	78	39	30	
Widworthy - -	113	21	0	7364
Widden Pen -	20	36	30	19207
Offwell Steeple -	46	2	30	
Salcomb Hill -	40	8	0	5834
North Station Peak Hill	27	50	0	8073
Sidmouth Steeple -	112	2	0	
Widworthy - -	65	0	0	39540
Wishcomb -	81	23	0	36252
Whitland's Signal Staff	33	37	0	
South Ottery Moor	11	36	0	21858
South Station Peak Hill	155	39	0	10660
Otterton Steeple -	12	45	0	
High Peak - -	98	40	0	8130
South Station Peak Hill	49	2	0	10344
Otterton Steeple -	32	18	0	
Salcomb Hill -	23	38	0	14345
South Station Peak Hill	91	43	0	5753
High Peak - -	64	39	0	
South Ottery Moor -	20	16	0	24820
South Station Peak Hill	143	25	0	14425
Budleigh Steeple -	16	19	0	
South Station Peak Hill	61	16	0	14415
High Peak - -	95	19	0	12694
Budleigh Steeple -	23	25	0	
South Ottery Moor -	52	8	0	26288
South Station Peak Hill	102	4	0	21221
Clump of Firs on Woodbury Hill - -	25	48	0	
South Ottery Moor -	67	22	0	15511
South Station Peak Hill	68	10	0	15416
Red Brick House on West Ottery Moor - -	44	28	0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
South Station Peak Hill	136 30 0	15409
High Peak	32 4 0	19979
Red Brick House	11 26 0	
South Station Peak Hill	84 42 0	6453
High Peak	51 15 0	8239
Colyton Rawleigh	44 3 0	
South Ottery Moor	44 22 0	20169
Broad Down	63 13 0	15798
Weston House	72 25 0	
Hembury Fort	6 57 0	12262
General Simcoe's Signal Staff	136 58 0	2174
St. Size Hill	36 5 0	
Hembury Fort	13 32 0	7979
St Size Hill	22 31 0	4876
Awliscombe Steeple	143 57 0	
Hembury Fort	66 26 0	20836
General Simcoe's Staff	83 16 30	19230
North Ottery New Station	30 17 30	
Hembury Fort	29 48 0	6944
North Ottery New Station	13 7 0	15207
Buckerell	137 5 0	
Hembury Fort	36 38 0	6943
General Simcoe's Staff	39 35 0	6502
Buckerell	103 47 0	
Hembury Fort	94 35 0	1214
General Simcoe's Staff	6 28 0	10748
HemburyFort New Station	78 57 0	
Hembury Fort	33 31 0	6757
Hembury Fort New Station	139 49 30	5783
Broadhembury Steeple	6 39 30	
North Ottery New Station	7 55 0	11693
Buckerell	23 57 0	3967
Buckerell Steeple	148 8 0	
Hembury Fort	23 14 0	9253
Buckerell	113 8 0	3969
Buckerell Steeple	43 38 0	
North Ottery New Station	36 59 0	10913
Buckerell	45 20 0	9231
Fenyton Steeple	97 41 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Hembury Fort	14 48 0	20540
St. Size Hill	145 22 0	9232
Honiton Steeple	19 50 0	
St. Size Hill	83 54 0	11105
Honiton Steeple	53 54 0	13666
Dumpdon	42 12 0	
Dumpdon	152 38 0	9440
Honiton Steeple	11 8 0	22472
Luppit Steeple	16 14 0	
Dumpdon	157 6 0	14516
Honiton Steeple	11 48 0	27622
Upottery Steeple	11 6 0	
Honiton Steeple	65 42 0	27633
St. Size Hill	94 51 20	25276
Upottery Steeple	19 26 40	
Tidcomb	85 19 0	27431
Stoodley Beacon	37 23 0	45030
Cadbury Castle	57 18 0	
Tidcomb	36 23 0	27436
Christcross	98 13 0	16443
Cadbury Castle	45 24 0	
Christcross	72 26 30	16450
Rocks Barton	29 37 0	31735
Cadbury Castle	77 56 30	
Cadbury Castle	63 25 0	3628
Rocks Barton	6 9 0	30286
Furzdon	110 26 0	
Tidcomb	101 45 0	29927
Cadbury Castle	41 9 0	44527
Studley Steeple	37 6 0	
Cadbury Castle	165 42 0	21318
Furzdon	12 14 0	24850
Poughill Steeple	2 4 0	
Cadbury Castle	103 25 0	8673
Furzdon	56 14 0	10148
Cadeleigh Steeple	20 21 0	
Cadbury Castle	81 15 0	4853
Cadleigh Steeple	31 9 0	9272
Prawhill	67 36 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Cadbury Castle -	18	58	0	21326
Prawhill - -	155	39	0	16811
Poughill Steeple - -	5	23	0	
Prawhill - -	23	17	0	10552
Poughill Steeple -	30	22	0	8250
Cheriton Fitzpain Steeple	126	21	0	
Tidcomb - -	45	46	0	13302
Newcot Highway - -	25	8	0	22440
Turret on a House near Tiverton - -	109	6	0	
Christcross - -	10	45	0	32189
Tidcomb - -	153	12	0	13316
Turret on House -	16	3	0	
Newcot Highway -	156	8	0	2230
Stoodley Beacon - -	3	43	0	13918
Templeton Tree -	20	9	0	
Stoodley Beacon -	20	16	0	21600
Newcot Highway -	138	29	0	11325
Cruwys Morchard Steeple	21	15	0	
Newcot Highway -	96	59	0	16683
Cruwys Morchard Steeple	57	7	0	21282
Rackenford Steeple -	31	54	0	
Newcot Highway -	42	30	0	16682
Stoodley Beacon -	92	17	0	11279
Rackenford Steeple -	45	13	0	
Whitestone - -	122	23	46	53468
Exeter Cathedral -	43	8	45	66017
Puddington Steeple -	14	27	29	
Cadbury Castle - -	111	32	0	11346
Rocks Barton - -	16	23	0	37419
Bickleigh Steeple -	52	5	0	
Christcross - -	35	58	0	52446
Tidcomb - -	126	24	0	38268
Burlescombe Steeple -	17	38	0	
Christcross - -	17	13	0	37364
Tidcomb - -	145	16	0	19410
Uploman Steeple -	17	31	0	
Cadbury Castle -	13	53	0	25688
Rocks Barton - -	42	12	0	9176
Upton Pyne Steeple -	123	55	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Cadbury Castle - -	16	33	0	22535
Rocks Barton - -	32	21	0	11996
Rewe Steeple - -	131	6	0	
Furzdon - -	15	9	0	20234
Rocks Barton -	26	11	0	11985
Rewe Steeple - -	138	40	0	
Whitestone - -	20	22	8	11701
Christcross -	6	25	14	36420
Newton St. Cyrus Steeple	153	12	38	
Whitestone - -	22	58	38	26581
Christcross - -	24	34	32	24949
Stoke, Cannon's Steeple	132	26	50	
Whitestone - -	17	22	34	23348
Christcross - -	15	39	24	25837
Brampfordspeke Steeple	146	58	2	
Whitestone - -	95	4	27	1515
Christcross - -	1	49	37	47319
Whitestone Steeple	83	5	36	
Whitestone - -	15	7	10	47144
Christcross -	149	45	20	9104
Gernsey's Gazebo -	15	7	30	
Whitestone - -	84	10	43	83647
Christcross - -	61	42	13	74034
Woodbury Signal Staff	34	7	4	
Whitestone - -	45	3	0	50780
Christcross - -	72	34	0	37668
Rockbeare Steeple -	62	23	0	
Whitestone - -	56	11	50	57187
Christcross - -	72	6	10	49936
Aylesbeare Steeple -	51	42	0	
Cadbury Castle -	31	28	0	59817
Rocksbarton - -	1[illegible]1	42	0	36699
Aylesbeare Steeple -	26	50	0	
Christcross - -	47	16	0	49936
Rocksbarton - -	92	5	0	36703
Aylesbeare Steeple -	40	39	0	
Christcross - -	120	27	0	21818
Cadbury Castle -	34	22	0	33318
Spray down -	25	11	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Haldon Old Station -	87	58	14	18903
Haldon New Station	64	2	21	21012
Alphington Steeple -	27	59	25	
Haldon Old Sration -	8	44	54	18917
Exeter Cathedral -	19	46	6	8507
Alphington Steeple	151	29	0	
Haldon Old Station -	133	7	35	30396
Haldon New Station	35	54	1	37834
Whitestone Steeple -	10	58	24	
Haldon Old Station -	11	35	36	40660
Haldon New Station -	164	44	45	31057
Exmouth Chapel -	3	39	39	
Haldon New Station -	101	33	46	29125
Exeter Cathedral -	38	53	40	45445
Exmouth Mill -	39	32	34	
Haldon Old Station -	24	40	48	25441
Haldon New Station	141	16	4	16982
Belvidere at Powderham	14	2	28	
Haldon Old Station -	72	2	20	25446
Exeter Cathedral -	52	5	0	30083
Belvidere at Powderham	55	52	40	
Haldon Old Station -	21	35	8	27701
Haldon New Station	147	19	39	18878
Vane on the Square Tower Powderham Castle	11	5	13	
Haldon Old Station -	51	48	4	27761
Haldon New Station -	108	29	59	23005
Topsham Chapel -	19	41	57	
Haldon Old Station -	39	42	0	12035
Haldon New Station -	85	28	57	7712
Kenn Steeple -	54	49	3	
Haldon Old Station -	71	28	14	38040
Haldon New Station	93	31	27	36136
Sourton Steeple -	15	0	19	
Haldon Old Station -	41	33	48	41147
Haldon New Station	127	27	49	34393
Woodbury Steeple -	10	58	23	
Haldon Old Station -	86	9	35	28656
Haldon New Station -	74	27	53	29676
Heavitree Steeple -	19	22	32	

Names of Stations and intersected Objects	Angles for Calculation. °	′	″	Distances. in Feet.
Haldon Old Station -	55	0	56	21308
Haldon New Station -	97	39	54	17615
Exminster Steeple -	27	19	10	
Haldon Old Station -	32	42	36	46633
Haldon New Station	139	22	13	38700
Woodbury Hill Summer House - -	7	55	11	
Haldon Old Station -	71	13	38	43614
Haldon New Station -	95	45	50	41503
Honiton Clyst Steeple	13	0	32	
Haldon New Station -	61	3	40	14292
Exeter Cathedral -	28	56	40	25844
Lawrence Tower -	89	59	40	
Haldon Old Station -	74	10	20	44631
Exeter Cathedral -	9	33	50	25844
Lawrence Tower -	96	15	50	
Haldon Old Station -	17	13	0	16293
Lawrence Tower -	156	31	0	12102
Castle Hill - -	6	16	0	
Haldon Old Station -	12	52	0	14689
Castle Hill - -	58	55	0	3820
Small Clump of Firs on the Point of a Hill - -	108	13	0	
Castle Hill - -	70	17	0	5679
Clump of Firs -	70	24	0	5675
White Chimney of third House from Exeter at Longdown End -	39	19	0	
Haldon Old Station	20	27	0	10024
Whitestone Steeple -	9	28	0	21294
Dunchideock -	150	5	0	
Haldon Old Station -	17	18	0	10018
Lawrence Tower -	149	43	0	5907
Dunchideock -	12	59	0	
Haldon Old Station -	9	39	0	8514
Dunchideock -	41	15	0	2164
Dunchideock Steeple	129	6	0	
Haldon Old Station -	20	16	0	5639
Dunchideock -	22	26	0	5118
Turret on North Wing of Haldon House -	137	18	0	

Names of Stations and intersected Objects.	Angles for Calculation.				Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Haldon Old Station	83	47	0	10279	Holcomb Down	83	31	0	37503
Lawrence Tower	71	51	0	10754	Lyndridge	82	23	0	37592
Shillingford Steeple	24	22	0		Hopes-nose	14	6	0	
Haldon Old Station	13	5		978	Coffinswell	14	10	30	12624
Lawrence Tower	3	36	30	3517	Hopes nose	32	1	30	5830
A New Station on Haldon	163	18	30		Warbury Hill	133	48	0	
New Station	42	32	30	2275	Hopes-nose	27	5	0	3765
Lawrence Tower	39	52	30	2399	Warbury Hill	34	41	0	3013
Ashton	97	35	0		Torwood	118	14	0	
Lawrence Tower	107	26		6018	Warbury Hill	78	22	0	20446
Ashton	53	48		7115	Coffinswell	67	0	0	21756
Doddescombeleigh Steeple	18	46	0		Marldon	34	38	0	
Castle Hill	58	46	0	6278	Warbury Hill	113	9	0	20439
Clump of Firs	84	0	0	5398	Torwood	59	33	0	21800
Dunchideock	37	14	0		Marldon	7	18	0	
Castle Hill	129	2	0	5673	Holcomb Down	73	35	30	13755
Dunchideock	24	6	0	10791	Lyndridge	68	0	0	14237
Longdown End Chimney	26	52	0		Shaldon	38	24	30	
Lawrence Tower	59	29	0	5982	Lyndridge		16	0	14227
Dunchideock	60	53	0	5898	Coffinswell	35	46	0	11527
Doddescombeleigh Steeple	59	38	0		Shaldon	115	58	0	
Lawrence Tower	57	25	0	7988	Coffinswell	18	6	30	6870
Ashton	105	47	0	6995	Hopes-nose	11	20	0	10865
Ashton Steeple	16	48	0		Church St. Mary Steeple	150	33	30	
Haldon New Station	22	7	48	10541	Hopes-nose	20	42	0	10868
Little Haldon	12	34	57	18229	Warbury Hill	38	28	0	5794
Lord Lisburn's Obelisk	145	17	15		Church St. Mary Steeple	20	50	0	
Lord Lisburn's Obelisk	18	58	50	18855	Hopes-nose	49	56		20638
Little Haldon	86	16	40	6146	Warbury Hill	115	16		17465
Holcomb Down	74	44	30		Paington Steeple	14	48		
Holcomb Down	88	36		9217	Torwood	89	29		17228
Lord Lisburn's Obelisk	26	19		20784	Warbury Hill	80	35		17463
Lyndridge	65	5			Paington Steeple	9	36		
Holcomb Down	61	56		24653	Torwood	55	5	0	13182
Lyndridge	96	15		21884	Warbury Hill	112	45	0	11721
Coffinswell	21	19			Cockington Steeple	12	10	0	
Holcomb Down	21	36		37511	Hopes-nose	55	7	30	18920
Coffinswell	126	31		17182	Warbury Hill	107	49	0	16304
Hopes-nose	31	53	0		Chimney of White House near Paington Bay	17	3	30	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Warbury Hill -	73	7	0	16303
Torwood - -	96	18	0	15695
Chimney of White House	10	35	0	
Torwood - -	10	5	0	23857
Maildon - -	112	1	0	4505
Tree on Beacon Hill -	57	54	0	
Warbury Hill -	51	52	30	7830
Coffinswell - -	38	20	0	9931
Building on Chapel Hill	89	47	30	
Lyndridge - -	19	48	0	18222
Coffinswell - -	52	29	0	7782
Furze Hill -	107	43	0	
Warbury Hill -	13	13	0	19506
Coffinswell - -	144	59	0	7772
Furze Hill - -	21	48	0	
Coffinswell - -	36	47	0	11915
Furze Hill -	103	54	0	7350
King's Kerswell Steeple -	39	19	0	
Coffinswell - -	26	25		18[illegible]32
Furze Hill - -	137	4		12170
Abbot's Kerswell Steeple	16	31		
Lyndridge - -	114	34	0	194[illegible]8
Shaldon - -	38	23	0	28457
Teigngrace Spire -	27	3	0	
Lyndridge -	[illegible]5	36		134[illegible]2
Shaldon - -	40	41		204[illegible]2
King's Teignton Steeple	43	43	0	
Lyndridge - -	45	54		36[illegible]59
Coffinswell - -	97	4		20093
Ipplepen Steeple -	37	2		
Coffinswell - -	33	42	0	18088
Shaldon - -	109	20	0	10636
Bishop's Teignton - -	36	58	0	
Lyndridge - -	41	21		12644
Holcomb Down -	91	52		8359
Signal Staff, Teignmouth Fort - -	46	46		
Holcomb Down -	94	33		7438
Shaldon - -	27	20		16149
Dawlish Signal Staff -	58	7		

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Lyndridge - -	97	28		20526
Shaldon - -	50	18		26452
Week Steeple - -	32	14	0	
Lyndridge - -	79	49		13312
Teigngrace Spire -	37	30		21522
Ideford - -	62	41		
Ideford - -	137	4	0	24285
Teigngrace Spire -	5	48	0	36029
Chudleigh -	37	8	0	
Ideford - -	75	38	0	10114
Chudleigh - -	83	38	0	9858
Chudleigh Steeple -	20	44	0	
Little Haldon - -	37	24	5	54751
Rippon Tor - -	69	24	30	35525
Blackingstone Rock -	73	11	25	
Rippon Tor Old Station	37	30	30	233
Blackingstone Rock -	0	13	50	35340
Rippon Tor New Station	142	15	40	
Blackingstone Rock -	137	45		8360
Rippon Tor New Station	7	42	30	41907
Maidon Down - -	34	32	30	
Rippon Tor New Station	17	20	30	44331
Mardon Down -	91	46	30	13220
Cranbrook Castle -	70	53	0	
Cranbrook Castle -	113	44	0	6322
Mardon Down -	20	9	30	16793
Drewsteignton - -	46	6	30	
Cranbrook Castle -	70	23	0	19188
Mardon Down -	69	26	30	19303
Cheriton Bishop's -	40	10	30	
Cranbrook Castle -	55	21	0	28371
Mardon Down -	97	6	30	23520
St. Mary Tedbourne -	27	32	30	
Cranbrook Castle -	38	30	0	45828
Maidon Down - -	128	26	30	36424
Whitestone Steeple -	13	3	30	
Cranbrook Castle -	110	29	0	21848
Mardon Down - -	44	1	30	28775
Hittesleigh - -	25	29	30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distance in Feet
Cranbrook Castle	90 15 0	37570
Mardon Down -	70 23 30	39882
Colebrooke -	19 21 30	
Cranbrook Castle	122 12 0	11703
Mardon Down	26 58 30	21832
Barn - -	30 49 30	
Cranbrook Castle -	74 15 0	16977
Mardon Down	62 12 30	18470
Calford House -	43 32 30	
Cranbrook Castle	60 49 0	15526
Mardon Down	67 22 30	14685
Blacksmith's Shop	51 48 30	
Bradbury Castle	43 18 30	62585
Cawsand Beacon	81 6 41	43450
Budleigh Steeple	55 34 49	
Bradbury Castle	25 33 37	27758
Hatherleigh -	44 46 37	17004
Inwardleigh Steeple	109 39 46	
Bradbury Castle	25 41 27	53507
Hatherleigh - -	15 35 2	25713
Honey Church -	38 43 31	
Hatherleigh -	86 42 3	14550
Bradbury Castle	21 49 2[illegible]	39075
Jacobstowe -	71 28 3	
High Hampton	63 9 0	16890
Hatherleigh -	48 13 10	20208
Petrock Stowe -	68 37 50	
High Hampton -	32 41 0	22747
Hatherleigh -	80 59 30	12437
Meeth -	66 19 30	
High Hampton -	24 58 0	28739
Hatherleigh -	112 14 [illegible]	13105
Iddesleigh - -	42 47 33	
Bradbury Castle -	26 10 1[illegible]	55431
High Hampton -	129 55 [illegible]	318[illegible]4
Dowland -	23 5[illegible] [illegible]0	
Bradbury Castle	46 30 40	63488
High Hampton -	107 21 40	48258
Winckley -	26 7 54	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
High Hampton	19 28	54396
Winckley -	99 29	18379
King's Ash -	61 3	
Cawsand Beacon	16 6 24	48110
Spreyton -	146 55 0	24450
Zeal Monachorum	16 58 3	
Bradbury Castle	33 8 35	62545
Cawsand Beacon	90 11 3	34196
North Tawton	56 39 53	
Hatherleigh -	48 26 50	23959
High Hampton	73 49 30	18608
North Lewe -	57 43 40	
High Hampton -	118 22 5	19475
Hatherleigh - -	29 26 51	34852
Beaworthy - -	32 10 19	
Hatherleigh -	19 0 0	34848
North Lewe - -	128 23 40	14476
Beaworthy - -	32 36 0	
St. Stephen's Down -	33 18 6	31587
Black Down -	25 39 20	40057
Broadwoodwidger -	121 2 34	
St. Stephen's Down -	19 24 39	37474
Black Down -	24 37 50	29883
Stowford - -	135 57 31	
Bradbury Castle -	33 2 40	14384
St. Stephen's Down	8 53 5	50715
Bratton Clovelly Steeple	138 3 30	
Bradbury Castle	47 7 50	31743
St. Stephen's Down	23 6 56	36872
Ashwater - -	1[illegible]9 45 14	
Bradbury Castle	55 9 18	50489
St. Stephen's Down	51 12 3	53168
Brent Tor -	73 38 39	
Black Down -	54 11 0	37331
St. Stephen's Down	[illegible]6 39 5[illegible]	50693
Bratton Clovelly	89 9 3	
Bratton Clovelly	20 6 40	33751
St. Stephen's Down	31 25 0	22263
Lifton Steeple -	28 28 20	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Black Down - -	5 31 6	77732
St. Stephen's Down	153 18 7	16637
North Petherwin Steeple	21 10 47	
Black Down - -	15 25 47	70014
St. Stephen's Down -	104 58 29	19282
Boyton Steeple -	59 35 44	
Black Down - -	4 46 37	61290
St Stephen's Down -	74 20 14	5301
Werrington Steeple -	100 53 9	
St. Stephen's Down -	120 10 29	58942
Warbstow - -	35 23 31	87980
Bradbury Barrow -	24 26 0	
St Stephen's Down -	65 54 33	36515
Warbstow - -	50 47 45	43018
North Tamerton Steeple	63 17 42	
St Stephen's Down -	11 42 24	36515
Holsworthy Steeple	17 59 20	23990
North Tamerton Steeple	150 18 16	
St Stephen's Down -	10 53 0	33999
North Tamerton Steeple	64 1 20	7141
Tetcott Steeple -	105 5 40	
St. Stephen's Down -	19 42 13	33998
Bridgerule - -	24 38 17	27496
Tetcott Steeple -	135 39 30	
St Stephen's Down -	31 58 40	24206
North Tamerton Steeple	38 44 0	20488
Chapmanswell -	109 17 20	
Holsworthy Steeple -	13 9 0	36841
St Stephen's Down -	20 16 0	24196
Chapmanswell -	146 35 0	
St Stephen's Down -	13 39 50	28367
Chapmanswell -	116 40 50	7499
Virginstowe - -	49 39 20	
Stamford - -	32 19 30	2264
Week St. Mary Steeple	2 25 10	28681
Stratton Steeple -	145 15 20	
Stamford - -	152 6 0	2828
Week St. Mary -	2 17 30	33094
Poughill Steeple - -	25 36 30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Stamford - -	46 4 30	11563
Stratton Steeple -	124 39 20	10124
Church Marham Steeple	9 16 10	
Holsworthy Steeple -	75 21 40	15114
Beacon Moor -	54 26 0	17977
Holsworthy Beacon -	50 12 20	
Holsworthy Beacon -	64 57 0	26502
Beacon Moor -	74 17 0	24941
Shebbear - -	40 46 0	
Holsworthy Steeple -	33 3 30	35662
Beacon Moor -	128 45 0	24944
Shebbear - -	18 11 30	
Holsworthy Beacon -	84 44 0	17911
Beacon Moor -	47 31 0	24184
Newton St. Petrock -	47 45 0	
Holsworthy Beacon -	101 52 0	11691
Shebbear - -	21 35 40	31088
Sutcombe Steeple -	56 32 20	
Holsworthy Beacon -	65 47 30	12759
Sutcombe Steeple -	57 12 30	11719
Milton Damerell -	57 0 0	
Shebbear - -	26 31 30	12670
Sutcombe Steeple -	15 59 30	20543
Thornbury Steeple -	137 29 0	
Pyworthy Steeple -	44 14 0	23145
Beacon Moor - -	63 57 0	17971
Holsworthy Beacon -	71 49 0	
Holsworthy Beacon -	60 12 30	18334
Pyworthy Steeple -	48 35 0	21216
Hollacombe Steeple -	71 12 30	
Holsworthy Steeple -	72 54 0	23280
Beacon Moor -	71 32 0	23459
Belland Down -	35 34 0	
Beacon Moor -	45 0 6	33765
Bradbury Castle -	54 35 48	29293
High Hampton	80 24 6	
Beacon Moor -	9 37 30	33950
High Hampton -	87 2 30	5684
Sheepwash - -	83 20 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
High Hampton -	57	29	0	8880
Sheepwash - -	83	4	0	7543
Black Torrington -	39	27	0	
High Hampton -	62	25	0	23982
Sheepwash - -	106	26	40	21745
Bradford Steeple -	13	8	20	
Beacon Moor -	29	2	30	39643
Kilkhampton - -	49	49	40	25186
Bradworthy Steeple -	101	7	50	
Holsworthy Steeple -	16	59	30	38603
Pancras Week -	150	56	30	23226
Kilkhampton - -	12	4	0	
Kilkhampton -	124	20	50	13555
Holsworthy Steeple -	13	30		47586
Crimp Down East Station	42	3		
Kilkhampton -	126	36		13538
Holsworthy Steeple	13	6	30	47924
Crimp Down West Station	40	17	30	
Crimp Down East Station	71	28		8659
Kilkhampton -		14		13569
Drake's House -		18		
Crimp Down West Station	75	14	0	16501
Kilkhampton -	59	40	40	18485
Tinnacombe Windmill	45	5	20	
Crimp Down East Station	130	12		9322
Holsworthy Steeple -	7	34		54074
Wooly Down East Station	42	14		
Crimp Down East Station	6	24	30	9044
Wooly Down East Station	71	38	10	1064
Wooly Down West Station	101	57	20	
Wooly Down West Station	65	26	30	4008
Crimp Down East Station	76	17	30	8230
Warmington's House	88	16	0	
Crimp Down East Station	41	0		31299
Wooly Down East Station	124	50		25023
Woolfardisworthy Steeple	14	9		
Wooly Down East Station	17	43	0	27717
Woolfardisworthy Steeple	86	9	30	7814
Sir James Hamlin's Lodge	76	7	30	

Names of Stations and intersected Objects	Angles for Calculation.			Distances in Feet.
Crimp Down East Station	10	25	5	41224
Woolfardisworthy Steeple	141	7	20	11877
Cross Park - -	28	27	35	
Cross Park - -	82	9	30	17513
Woolfardisworthy Steeple	61	19	40	19773
West Putford -	36	30	50	
Belleview - -	37	34	0	63694
Langtree - -	115	40	0	43085
Woolfardisworthy Steeple	26	46	0	
Dunkery Beacon -	39	38	21	24662
Haddon Beacon -	27	47	53	33463
Wembury Barrow -	112	33	46	
Northmolton Ridge -	122	10	20	58014
Span Head - -	43	23	10	71489
Light Hill Barrow -	14	26	30	
Northmolton Ridge	21	52	40	34330
Span Head - -	130	9	30	16738
Barrow West of Dudum	27	57	50	
Northmolton Ridge -	50	0	30	27003
Span Head - -	79	50	10	21018
Ashton Hill - -	50	9	20	
Northmolton Ridge	34	1	50	29983
Span Head -	102	42	40	17201
Dudum - -	43	15	30	
Northmolton Ridge -	64	0	40	9789
Span Head - -	27	40	50	18941
Barrow North of the Ridge	88	18	30	
Span Head - -	26	17	0	52579
Northmolton Ridge	138	14	37	34960
Rose Ash Steeple -	15	28	23	
Span Head - -	118	20	54	13651
Northmolton Ridge -	36	31	20	29518
Bishop's Nympton Steeple	25	7	46	
Span Head - -	32	42	18	48027
Northmolton Ridge -	126	42	30	32370
Wembury Barrow -	20	35	2	
Span Head - -	42	56	0	48561
North Molton Ridge -	113	39	25	36111
Mary-Ansleigh Steeple	23	24	35	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Span Head -	63 34 37	59248	Northmolton Ridge	35 10 16	59195
Northmolton Ridge	95 42 24	53323	Beacon Moor -	70 13 20	36235
Kingsnympton Spire -	20 42 59		Witheridge - -	74 36 24	
Haldon Beacon -	30 5 59	96424	Beacon Moor -	87 20 26	36244
Northmolton Ridge	114 55 52	53326	Span Head - -	28 13 32	76552
Kingsnympton Spire	34 58 9		Witheridge - -	64 26 2	
Span Head - -	12 36 27	54855	Beacon Moor - -	29 37 50	11709
Northmolton Ridge -	159 45 30	34607	Span Head - -	5 36 30	59237
Knowstone Steeple -	7 38 3		Kingsnympton Spire -	144 45 40	
Span Head - -	88 6 28	48537	Beacon Moor -	14 36 2	18468
Northmolton Ridge -	68 8 29	52268	Span Head -	94 40 20	72996
Chittlehampton Steeple	23 45		Burrington - - -	70 43 19	
Span Head - -	70 32 53	50703	Northmolton Ridge -	9 16	46185
Northmolton Ridge -	85 0 20	47992	Witheridge -	28 39	15512
Sateleigh Gazebo -	24 26 47		Meshaw Moor -	142 5	
Span Head - -	84 6 54	33015	Witheridge - -	64 40 10	9419
Northmolton Ridge -	61 42 26	37297	Beacon Moor -	14 48 2	33316
Castle on Castle Hill -	34 10 40		Thelbridge Steeple -	100 31 30	
Northmolton Ridge -	101 18 10	34603	Witheridge - -	92 13	16709
Southmolton Steeple	42 25 0	50306	Thelbridge Steeple -	58 55	19496
East Anstey Steeple	36 16 50		Barrow on Meshaw Moor	28 52	
Northmolton Ridge -	26 28 50	36101	Witheridge - -	38 51	11475
Southmolton Steeple -	96 55 50	16216	Thelbridge Steeple -	86 10	7214
Mary Ansleigh Steeple	56 35 20		West Worlington Spire	54 59	
Span Head -	7 54 40	53197	Witheridge - -	40 11 30	9664
Southmolton Steeple -	156 12 30	18150	Thelbridge Steeple -	71 55 0	6561
Romansleigh Steeple -	15 52 50		East Worlington Spire	67 53 30	
Beacon Moor - -	67 14 59	57337	Beacon Moor - -	39 32 40	27710
Northmolton Ridge -	53 57 27	65393	West Morchard -	46 5 56	24485
Cotten Hill - -	58 47 34		Coleridge Steeple -	94 21 24	
Northmolton Ridge -	27 12 44	55095	Bradbury Castle -	15 30	80625
Beacon Moor - -	65 10 52	27758	Beacon Moor -	49 0	27712
Warkleigh Steeple -	87 36 24		Coleridge Steeple -	115 50 30	
Northmolton Ridge -	14 14 30	69640	West Morchard -	9 37 0	13739
Beacon Moor -	111 47 40	18451	Coleridge Steeple -	11 51 0	11177
Burrington Steeple -	53 57 50		Lapford Steeple -	158 32 0	
Northmolton Ridge -	9 12 10	53316	Coleridge Steeple -	46 20 30	18185
Beacon Moor -	46 45 16	11706	Lapford Steeple -	95 58 30	13238
Kingsnympton Spire -	124 2 34		Downe St. Mary	37 41	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.
Coleridge Steeple -	8 56	6774
Lapford Steeple -	13 12	4607
Nymett Rowland Steeple	157 52 0	
Coleridge Steeple -	168 53 30	7341
Lapford Steeple -	4 24	18434
Brushford Spire -	6 42 30	
Lapford Steeple -	12 27 0	28913
Coleridge Steeple -	159 55 30	18160
East Budleigh Steeple -	7 37 30	
Thelbridge Steeple -	18 53 30	24836
Beacon Moor - -	39 18 35	12693
Chawleigh Steeple -	121 47 55	
Thelbridge Steeple -	11 30 30	33682
Beacon Moor -	87 19 0	6727
Chumleigh Steeple -	81 10 30	
Southmolton -	136 29 0	34332
Cotten Hill - -	18 46 30	73449
Molland Down -	24 44 30	
Southmolton - -	133 46 0	33783
Cotten Hill - -	19 44 0	72256
Molland Clump - -	26 30 0	
Southmolton -	2 44	33962
Molland Down -	75 50	1670
Molland Clump -	101 26 0	
Molland Down -	60 30	5731
Molland Clump -	103 0 0	5119
Twitchen Steeple -	16 30 0	
Southmolton -	104 23 40	15067
Cotten Hill - -	16 47	50543
Northmolton Steeple -	58 49	
Southmolton -	28 23 30	41281
Cotten Hill - -	67 0 30	21323
Atherington Steeple -	84 36 0	
Southmolton -	5 53 0	26500
Cotten Hill - -	8 27 0	18485
Ewsdon Hill -	165 40 0	
Southmolten - -	82 45 30	162[illegible]6
Cotten Hill - -	20 40 30	45534
Warmford Hill -	76 34 0	

Names of Stations and intersected objects.	Angles for Calculation	Distances in Feet.
Southmolton -	48 11 0	53426
Cotten Hill -	77 14 0	40827
Roborough -	54 35 0	
Cotten Hill -	33 19 0	40528
Belleview - -	96 14	22559
Roborough -	50 27 0	
Southmolton -	20 12 0	53459
Belleview -	54 53 0	22567
Roborough -	104 55	
Harwood -	40 19 0	32799
Cotten Hill -	84 30 0	21320
Atherington -	55 11 0	
Harwood -	67 46 30	9780
Cotten Hill -	21 11 30	25046
Alverdiscott Steeple	91 2 0	
Parkham -	15 2	44592
Belleview	80 41	11721
Alverdiscott Steeple	84 17	
Alverdiscott Steeple	55 35 0	14914
Cotten Hill -	36 31 0	20676
Yarnscombe Steeple	87 54 0	
Cotten Hill -	58 46 30	20675
Beacon Moor -	20 46 2	49851
Yarnscombe Steeple	100 27 1[illegible]	
Northam - -	40 23 0	27601
Belleview - -	52 3 0	22678
Monkleigh Steeple	87 34 0	
Northam -	66 29	28522
Belleview -	47 57	35221
Buckland Brewer	65 34 0	
Northam - -	27 19 0	42490
Belleview - -	98 7 0	19696
Little Torrington Steeple	54 34 0	
Roborough - -	43 58 0	28163
Belleview - -	83 18 0	19687
Little Torrington Steeple	52 44 0	
Buckland Brewer -	72 54 0	12689
Northam - -	26 4 0	27599
Monkleigh Steeple -	81 2 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Langtree - -	43	19	0	17039
Belleview - -	31	2	0	22674
Monkleigh Steeple -	105	39	0	
Little Torrington Steeple	25	30	0	7797
Belleview - -	14	51	0	13097
Great Torrington -	139	39	0	
Buckland Brewer -	17	8	0	25662
Belleview - -	35	15	0	13099
Great Torrington -	127	37	0	
Langtree - -	42	39	0	33227
Belleview - -	71	50	0	23693
Beaford Spire - -	65	31	0	
Roborough -	82	39	0	10648
Belleview - -	26	28	30	23689
Beaford Spire - -	70	52	30	
Cotten Hill - -	46	22	0	30142
Belleview - -	63	31	0	24374
High Bickington -	70	7	0	
Cotten Hill - -	29	6	30	30147
Beacon Moor - -	25	19	30	34284
High Bickington -	125	34	0	
Monkleigh Steeple -	120	4	0	[illegible]
Buckland Brewer -	14	18	0	15361
Frithelstock Steeple -	45	38	0	
Monkleigh Steeple -	96	38	0	10370
Buckland Brewer -	36	34	0	17289
Landcross Steeple -	46	48	0	
Belleview - -	26	53	0	21836
Monkleigh Steeple -	72	2	0	10380
Landcross Steeple -	81	5	0	
Buckland Brewer -	71	24	0	26242
Monkleigh Steeple -	80	9	0	25243
Port Hill House -	28	27	0	
Buckland Brewer -	125	4	30	8699
Monkleigh Steeple -	21	55	30	19060
Alwington Steeple -	33	0	0	
Parkham - -	23	10	0	42370
Northam - -	113	31	0	18178
Horwood Steeple -	43	19	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Northam - -	64	42	0	8894
Horwood Steeple -	29	13	0	16473
Bideford Steeple -	86	5	0	
Parkham - -	22	58	30	38392
Horwood Steeple -	64	53	30	16549
Barrow above Appledore	92	8	0	
Parkham - -	5	35	0	60937
Barrow above Appledore	165	5	0	23032
Braunton Spire -	9	20	0	
Parkham -	11	19	40	36075
Northam - -	117	24	0	7981
Westleigh Steeple -	51	10	20	
Buckland Brewer -	10	17	0	16751
Port Hill House -	17	2	0	10203
Windmill Hill near Bideford	152	41	0	
Windmill Hill -	68	32	0	8012
Port Hill House -	45	42	0	10411
Abbotsham Steeple -	65	46	0	
Northam - -	12	46	0	12176
Bideford - -	137	56	0	4016
Twelve Acres -	29	18	0	
Twelve Acres - - -	36	19	0	38275
Northam - -	129	28	0	2[illegible]363
Braunton Spire -	14	13	0	
Northam - -	115	3	0	38554
Westleigh Steeple -	55	10	0	42552
Baggy Point - -	9	47	0	
Buckland Brewer -	46	39	0	35911
Northam - -	81	34	0	26399
Alverdiscott Steeple -	51	47	0	
Northam - -	13	45	30	27506
Alverdiscott Steeple -	93	47	0	6549
Newton Tracey -	73	27	30	
Northam - -	94	11	0	27572
Belleview - -	36	38	0	46086
Heanton Punchardon Steeple - -	49	11	0	
Heanton Punchardon -	13	58	30	20075
Cotten Hill - -	19	49	30	14295
Barnstaple Spire -	146	12	0	

Names of Stations and intersected Objects.	Angles for Calculation			Distance in Feet.
	°	'	"	
Barnstaple Spire -	157	26	0	3132
Cotten Hill -	[illegible]	0	0	17228
Pilton Steeple -	16	34	0	
Heanton Punchardon	34	57	0	10405
Cotten Hill -	13	43	40	25117
Fremington -	131	19	20	
Fremington -	46	46	0	20767
Cotten Hill -	54	15	0	8643
Roborough -	78	59	0	
Cotten Hill -	16	50	20	18620
Pilton Steeple -	96	13	40	5426
Roborough -	66	54	0	
Roborough -	125	42	0	9765
Pilton Steeple -	35	29	0	13661
Goodleigh Steeple	18	49		
Cotten Hill -	10	48	0	24847
Pilton Steeple - -	147	2	0	8556
Ashford Steeple -	22	10	0	
Span Head -	31	27		54638
Cotten Hill -	74	20		29608
Warkleigh -	74	13		
High Bickington	72	36		16[illegible]
Cotten Hill -	31	3		29[illegible]2
Warkleigh -	76	21		
Paracombe Down	51	44		[illegible]
Cotten Hill -		47		58316
West Station on the Down	126	28	20	
Cotten Hill -		20	30	55056
West Station -		29	0	[illegible]520
South West Station on Paracombe Down -	157	10	3	
West Station -	35	33	20	10068
South West Station	28	35	0	7489
Challacombe Steeple -	15	51	40	
West Station - -	68	44	40	7366
South West Station -	82	50	50	6[illegible]18
Paracombe Steeple -	28	18	30	
Span Head - - -	28	22	0	16732
Paracombe Down -	[illegible]	[illegible]	[illegible]	[illegible]
Barrow west of Dureham	111	58	34	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Paracombe Down -	9	5	10	6498
Barrow west of Dureham	9	38	40	6126
Station east of Paracombe	161	16	10	
Paracombe Down -	48	13	20	17215
Station east of Paracombe	111	10	0	13767
Chimney of a Thatched House - -	20	36	40	
Paracombe Down -	31	15	0	16224[illegible]
Cotten Hill - - -	133	10	50	115428
Hartland Point - -	15	34	10	
Paracombe Down -	4	32	30	62931
Cotten Hill - -	121	9	20	5823
Tawstock Steeple -	54	18	10	
Paracombe Down -	6	24		6209
Barrow west of Dureham	6	17		6324
Barrow near Longstone	167	19		
Paracombe Down -	15	29	10	6211
Station east of Paracombe	72	48		1736
Barrow near Longstone -	91	42	50	
Northmolton Ridge -	60	48	23	119590
Paracombe Down -	97	30	7	105301
C[illegible] Summer House	21	41	30	
N[illegible]olton Ridge -	59	1	47	180655
Paracombe Down -	107	20	37	162260
H[illegible]nd Point -	13	37	36	
Hangman Hill -	42	45		30992
Berry Down - -	108	27		22177
Slate Down -	28	48		
Hangman Hill -	47	0		15023
Perry Down - -	63	26		12284
Hill west of Berryn Arbor	69	34		
Bratton Down - -	7	43		34741
Hangman Hill - -	48	26		6241
Great Hangman -	123	50		
Bratton Down -	6	11	0	41412
Hangman Hill -	120	17	0	5165
Little Hangman -	53	32	0	
Hangman Hill -	4		0	22274
Slate Down - -	19	16	30	9469
Helesbarrow - -	152	39	30	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Helesbarrow - -	10	45	30	6289
Slate Down - -	19	38	0	3494
Ilfracombe Steeple -	149	36	30	
Hangman Hill - -	31	0	0	47890
Paracombe Down -	101	58	20	25214
Countesbury Steeple -	47	1	40	
Sir Lawrence Palk's Tower	22	26	30	5149
Haldon Old Station -	98	28	30	1987
Haldon New Station -	59	5	0	
Haldon New Station -	118	39	0	12043
Palk's Tower - -	44	3	20	15199
Pleasure House Hill -	17	17	40	
Haldon New Station -	78	28	10	9294
Palk's Tower - -	70	7	50	9683
Ashwell Hill -	31	24	0	
Haldon New Station -	40	10	40	12042
Pleasure House Hill -	50	30	30	7770
Ashwell Hill -	89	18	50	
Haldon New Station -	17	59	0	21 20
Pleasure House Hill -	141	10	30	[illegible]
Hennock Steeple - -	20	50	30	
Pleasure House Hill -	90	40	0	[illegible]
Ashwell Hill -	53	55	10	[illegible]
Hennock Steeple -	36	24	50	
Haldon New Station	9	55	40	12058
Pleasure House Hill -	85	27	0	2085
Trusham Steeple -	84	37	20	
Hamilton Tor - -	95	42	0	24907
Rippon Tor -	45	41	0	34640
Moreton Hampstead Steeple - -	38	37	0	
Hamilton Tor -	61	50	0	24903
East Down - -	68	48	0	23547
Moreton Hampstead Steeple - -	49	22	0	
Rippon Tor - -	58	39	10	10374
East Down - -	52	0	30	11242
Barrow Hill - -	69	20	20	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Rippon Tor - -	20	54	10	34646
East Down - -	148	20	40	23553
Moreton Hampst. Steeple	10	45	10	
Barrow Hill - -	27	9	10	8078
Rippon Tor - -	49	10	0	4873
A Rock - -	103	40	50	
Barrow Hill -	42	54	0	5911
Rock - -	47	1	50	5499
Widdecombe Steeple -	90	4	10	
Rippon Tor - -	42	10	0	26233
East Down - -	112	2	0	18997
Bovey Tracey - -	25	48	0	
Denbury - -	45	28	0	16209
Rippon Tor - -	28	35	0	24149
Hele's Down - -	105	57	0	
Hele's Down - -	77	8	0	16954
Rippon Tor - -	39	3	0	26235
Bovey Tracey - -	63	49	0	
East Down - -	44	42	0	8835
Hamil on Tor -	23	57	0	15309
Maniaton Steeple -	111	21	0	
Hele's Down - -	23	25	0	13689
Rippon Tor - -	25	9	0	12801
Islington Steeple -	131	26	0	
Rippon Tor - -	16	28	0	20280
Denbury - - -	23	39	0	14330
Cook's Beacon - -	139	53	0	
Cook's Beacon -	48	9	0	11987
Denbury - - -	54	39	30	10946
Tarcoin - - -	77	11	30	
Denbury - -	78	19	30	10952
Rippon Tor - -	19	27	30	32196
Tarcoin - -	82	13	0	
Rippon Tor - -	25	35	20	19377
Brent Ruins - -	15	27	30	31399
Ashburton Steeple -	138	57	10	
Ashburton Steeple -	78	16	10	9983
Rippon Tor - -	29	24	0	19911
Hall's Down - -	72	19	50	

Names of Stations and intersected Objects	Angles for Calculation	
Ashburton Steeple	37 41 10	10573
Hall's Down	75 59 40	6664
Ashburton Down	66 19 10	
Ashburton Down	25 6	
Hall's Down	96 14	3310
Cook's Beacon	58 40	
Ashburton Down	53 42 0	17379
Cook's Beacon	100 15 0	14234
West Ogwell Steeple	26 3 0	
Ashburton Steeple	46 51 9	6968
Ashburton Down	41 10 40	7721
Cook's Beacon	91 58 20	
Ashburton Down	129 1 10	8532
Cook's Beacon	26 51 10	14675
Hallsenger Summer House	24 7 40	
Ashburton Down	130 49	5212
Cook's Beacon	19 31	11807
Hallsenger Farm House	29 39 50	
Hele's Down	14 50 0	15263
Rippon Tor	24 23 0	33552
Denbury Steeple	40 47 0	
Denbury	88 8 0	31045
Tarcorn	73 52 0	35422
Haytor Rock	18 0	
Cook's Beacon	26 50 0	23456
Denbury	33 28 30	34037
Haytor Rock	19 41 30	
Denbury	67 20 0	16491
Tarcorn	7 37 0	27282
High Week Steeple	5 3 0	
Denbury	98 42 30	8654
Tarcorn	34 54 0	14951
Ipplepen Steeple	46 23 30	
Denbury	22 34 0	8921
Tarcorn	51 36 0	4369
Broad-Hempston Steeple	105 50 0	
Cook's Beacon	35 8	15114
Denbury	77 14 30	8918
Broad-Hempston Steeple	67 37 30	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet
Cook's Beacon	20 8	6748
Denbury	16 12 1	8524
Woodland Steeple	143 39 50	
Denbury	38 28 20	8321
Tarcorn	49 24 0	6015
Woodland Steeple	92 7 40	
Denbury	55 20	28213
Tarcorn	102 42 0	23755
Hazewell Rock	22 12 40	
Rippon Tor	59 15 50	12962
Denbury	23 14 10	28240
Hazewell Rock	97 30 0	
Denbury	78 56 10	9316
Cook's Beacon	38 4 0	15784
Hobbin Wood's Gazebo	62 59 50	
Cook's Beacon	60 31	17385
Denbury	69 7	16198
Hele's Down	50 21 50	
Cook's Beacon	22 27 50	15801
Hele's Down	65 14 50	6648
Hobbin Wood's Gazebo	92 17 20	
Tarcorn	35 47 30	19958
Rippon Tor	36 5 50	19818
Bickington Steeple	108 6 40	
Cook's Beacon	32 5	4889
Tarcorn	18 19	8263
Hele's House	129 36	
Tarcorn	87 15	9762
Rippon Tor	17 5 0	33192
Buckfastleigh Station	75 40 0	
Rippon Tor	10 52 40	29620
Buckfastleigh	53 42 20	6935
Buckfastleigh Spire	15 25 0	
Cook's Beacon	53 10 0	32799
Denbury	01 29 0	26788
Totness Steeple	25 21 0	
Totness Steeple	85 10 10	7446
Marldon Beacon	21 50 20	19945
Dartington Steeple	72 59 30	

Names of Stations and intersected Objects.	Angles for Calculation.	Distance in Feet
Totness Steeple -	112° 4	7435
Willman Hill - -	19 2	21121
Dartington Steeple -	48 53	
Totness Steeple -	75 4 50	4168
Willman Hill - -	14 2 40	16594
Station South of Totness	90 52 30	
Station South of Totness	97 25 10	12278
Willman Hill - -	33 48 50	21882
Flap Park - -	48 46 0	
Totness Steeple -	14 43 30	8143
Willman Hill -	19 46 20	21866
Flap Park - -	45 30 30	
Totness Steeple -	97 15	8818
Station near Totness -	58 53	10217
Berry Pomeroy Steeple -	23 51	
Totness Steeple -	150 58 0	7853
Station near Totness -	19 3 30	11672
Little Hempston Steeple	9 58 30	
Willman Hill - -	109 59 10	19550
Marldon Beacon -	50 8 30	23934
Churston Ferrers Steeple	19 52 20	
Willman Hill -	105 53 0	26722
Marldon Beacon -	58 8 40	30260
Windmill near Brixham	15 58 20	
Willman Hill -	111 48 40	26589
Marldon Beacon -	53 5 50	30870
Brixham Steeple -	15 5 30	
Willman Hill -	159 5 40	14686
Marldon Beacon -	13 10 50	22982
Dittesham Steeple -	7 43 30	
Willman Hill -	159 23 30	15063
Marldon Beacon -	13 7 0	23366
Cornworthy Steeple -	7 29 40	
Totness Steeple -	78 38 50	10331
Marldon Beacon -	30 37 40	19881
Warden House -	70 43 30	
Horner Down -	59 27 0	16779
Denbury - -	18 51 10	41717
Square Close - -	101 41 50	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Horner Down -	22 44	25513
Square Close - -	124 29	11975
Rattery Spire - -	32 47	
Station near Totness -	73 12 4[illegible]	9216
Flap Park - -	41 44 3	12965
Station near Harberton	65 2 5	
Horner Down -	98 1	34511
Square Close - -	57 42 5	40424
Willman Hill - -	24 16 1	
Moreleigh -	30 47	22822
Horner Down -	133 42	16161
Harberton Steeple -	15 30	
Moreleigh -	30 20 1	6623
Horner Down -	50 52	43[illegible]3
Moreleigh Steeple -	98 47 5	
Moreleigh - -	78 16 28	11261
Higher East Close -	30 7 5	21966
Wallaton Cross -	71 35 40	
Higher East Close -	79 54 20	15761
Wallaton Cross -	38 56 20	24690
Stoke Fleming Steeple	61 9 20	
Horner Down -	10 6 3[illegible]	31482
Higher East Close -	134 13 30	7711
Station near Dittesham	35 40	
Higher East Close -	12 38 20	10754
Station near Dittesham	139 46 50	3644
Station near Dartmouth	27 34 50	
Station near Dartmouth	93 13	7730
Station near Dittesham	62 9	8729
Townstall Steeple -	24 38	
Higher East Close -	55 35	10341
Station near Dittesham	77 39 40	8732
Townstall Steeple -	46 45 20	
Higher East Close -	42 56 50	10335
Station near Dartmouth	65 38 10	7730
Townstall Steeple -	71 25	
Station near Dittesham	47 31	14907
Station near Dartmouth	20 17	18734
Dartmouth Castle -	12 11	

Names of Stations and intersected Objects.	Angles for Calculation ° ′ ″	Distances in Feet
Moreleigh -	109 6 40	11198
Butterton Hill -	12 6 30	50445
East Allington Steeple	58 46 50	
Horner Down -	34 23 20	15746
Church Stowe Steeple	25 57 0	20325
Black Down - -	119 39 40	
Butterton Hill -	8 51 4	63999
Church Stowe -	150 37 50	20078
Malborough Spire -	20 31 6	
Butterton Hill -	41 50 20	19635
East Beacon - -	127 27 50	16501
North Huish -	10 41 50	
Barrington - -	57 55 20	2069
Hemerdon Ball -	8 1 0	12570
Plympton St. Mary Steeple	114 3 40	
Barrington - -	33 15 0	2536
Hemerdon Ball -	6 56 20	11509
Plympton Steeple -	139 48 40	
Barrington - -	48 48 10	24366
Hemerdon Ball -	97 46 30	18504
Shaugh Steeple -	33 25 20	
Barrington - -	66 59 0	22405
Hemerdon Ball -	76 56 10	21169
Bickleigh Steeple -	36 4 50	
Barrington - -	165 37 40	11256
Hemerdon Ball	6 31 10	24609
Plympstock Steeple -	7 51 10	
Barrington -	153 39 10	14950
Station South of Yealmpton	10 23 50	36764
Eggbuckland Steeple	15 57 0	
Newton Down -	69 20 10	9020
Station South of Yealmpton	51 23 40	10726
Brixton Steeple -	58 46 10	
Newton Down -	28 49 20	12108
Station South of Yealmpton	97 51 20	5892
Yealmpton Steeple -	53 19 20	
Station South of Yealmpton	104 19 20	17572
Barrington - -	32 7 50	32014
Gonnor Signal Staff -	43 32 50	

Names of Stations and intersected Objects.	Angles for Calculation ° ′ ″	Distances in Feet.
Station South of Yealmpton	38 15 50	17578
Newton Down -	110 10 20	11596
Gonnor Signal Staff	31 33 50	
Gonner Down -	26 5 10	9093
West Down - -	130 39 30	5271
Wembury Steeple -	23 15 20	
Gonnor Down -	122 55 50	4195
West Down -	26 39 30	7847
Newton Ferrers Steeple	30 24 40	
East Beacon -	49 32 40	11952
Rippon Tor - -	9 56 0	52722
Three Barrow Tor -	120 31 20	
Three Barrow Tor -	33 16 0	5305
East Beacon -	21 9 50	8060
Stall Beacon -	125 34 10	
Three Barrow Tor -	130 35 30	9275
East Beacon - -	21 23 0	19317
White Barrow -	28 1 30	
Slopstor - -	45 57 40	14855
Hessary Tor - -	62 59 40	11985
Vixen Tor - -	71 2 40	
Station above Pen Beacon	69 50 30	6123
Barrington -	10 32 40	31413
Highest point of the Ridge of Rocks West of Pen Beacon - -	99 36 50	
Barrington -	121 50 0	4215
Hemerdon Ball -	12 47 40	16170
Clarke's Gazebo -	45 22 20	
Hemerdon Ball -	73 45 27	19890
Station above Pen Beacon	52 16 20	24143
Ivy Bridge Race-house	53 58 13	
Hemerdon Ball -	73 31 10	28844
Station above Pen Beacon	66 16 40	30211
Roborough Clump -	40 12 10	
Rippon Tor -	8 56 0	39365
Ryders Hill -	118 13 50	6938
Knot Barrow - -	52 50 10	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Ryder's Hill	4 42 30	23180
Hessary Tor	12 47 40	8592
Tor Royal Flagstaff	62 29 50	
Ryder's Hill	16 23 50	27694
Hessary Tor	57 51 20	9233
Bare Down Chapel	105 44 50	
Hessary Tor	96 31 20	20450
Ryder's Hill	31 0 30	39439
Beeryonder Tor	52 28 10	
Hessary Tor	13 6 20	20456
Cut Hill	27 58 20	9889
Beeryonder Tor	138 55 20	
Ryder's Hill	45 51 40	24680
Hessary Tor	51 5 50	22759
Bellever Tor	83 2 30	
Ryder's Hill	34 39 30	33870
Hessary Tor	79 21 20	19598
Littlever Tor	65 59 10	
Rippon Tor	38 58 20	20409
Cut Hill	18 35 0	40280
Quarnion Tor	122 26 40	
East Down	32 23 10	29737
Rippon Tor	28 46 30	20430
Quarnion Tor	18 50 20	
Cocks Tor	36 45 20	10686
Hessary Tor	36 58 10	10633
Great Mis Tor	106 16 30	
Cut Hill	79 47	11509
Beeryonder Tor	55 17 0	13779
Siddever Tor	44 56 0	
Cocks Tor	1 29 50	21394
Hessary Tor	5 50	14212
Peak Beacon	52 40 10	
Cut Hill	48 7 10	10999
Tes Tor	24 52 30	19469
Hewdeck Staff	107 0 20	
Cut Hill	36 31 0	20411
Tes Tor	54 41 50	14883
Great Links Tor	88 47 10	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′	Distances in Feet.
Cawsand Beacon	30 13 40	28367
Castor Rock	07 36 —	14982
Siddaford Tor	42 10 20	
Cawsand Beacon	29 29 10	25103
Castor Rock	98 36 50	12497
Chagford Steeple	51 54 —	
Cawsand Beacon	24 58 30	42256
Castor Rock	35 46 —	25576
North Bovey Steeple	19 15 30	
Cawsand Beacon	17 53 20	15341
Castor Rock	41 13 0	7152
Gidley Steeple	120 53 40	
Cawsand Beacon	46 1 20	10380
Castor Rock	30 22 50	14[illegible]32
Throwley Steeple	103 22 50	
Oakhampton Park	1 8 43	6226
Tes Tor	21 8 20	16351
Oakhampton Steeple	50 8 40	
Oakhampton Park	30 35	21937
Tes Tor	116 46	12499
Sourton Tor	32 39 0	
Sourton Tor	49 6	21541
Tes Tor	95 37 50	16361
Oakhampton Steeple	35 16 10	
Brent Tor	39 19 30	38883
Black Down	127 52 0	31213
Sourton Tor	12 48 30	
Black Down	15 44	11838
Sourton Tor	9 12	20077
Lydford Steeple	155 4 0	
Black Down	5 10	31699
Sourton Tor	97 8	287[illegible]
Sourton Steeple	77 42	
Sourton Tor	87 58 0	2007[illegible]
Sourton Steeple	83 50 30	2017[illegible]
Lydford Steeple	8 11 30	
Sourton Tor	39 31 40	9805
Sourton Steeple	126 54 10	7804
Bridestow Steeple	13 31 10	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Black Down - -	12 36 0	11526
Cocks Tor - -	18 55 50	7750
St Peter Tavy Steeple	148 28 10	
Black Down - -	14 56 10	8078
Cocks Tor -	10 56 10	10974
St. Mary Tavy Steeple	154 7 40	
Morwell Down -	16 5 40	27084
Cocks Tor - -	75 22 30	7760
St. Peter Tavy Steeple	88 31 50	
Morwell Down -	22 12 50	28856
Cocks Tor - -	83 22 10	10983
Mary Tavy Steeple -	74 25 0	
Morwell Down -	20 1 20	11921
Cocks Tor - -	13 40 10	17271
Tavistock Steeple -	146 18 30	
Cocks Tor - -	32 9	29999
Leather Tor - -	101 32 50	16294
Hurlstone Rock -	46 18 10	
Hurlstone Rock -	36 20 50	18430
Leather Tor - -	82 42 50	11048
Sampford Spiney Steeple	60 56 20	
Hurlstone Rock -	27 40 10	14719
Leather Tor - -	64 31	7572
Sheepstor Steeple -	87 48 50	
[illegible]her Tor - -	68 56 50	11051
Mary Tor - -	41 8 10	15678
Sampford Spiney Steeple	69 55 0	
Hurlstone Rock -	20 33 10	12007
Leather Tor - -	39 50 50	6579
Walkhampton Steeple -	19 36 0	
Cocks Tor -	16 55 50	19882
Leather Tor -	61 42 0	6576
Walkhampton Steeple -	01 22 10	
Leather Tor -	4 57	16097
Hurlstone Rock -	9 31	1412
Hurlstone Station -	[illegible]5 32	
Hurlstone Rock -	47 1 10	8181
Hurlstone Station -	24 50 0	7292
Meavy Steeple -	8 8 50	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Hurlstone Station -	28 5	13890
Leather Tor -	59 34	7584
Sheepstor Steeple -	92 21	
Cocks Tor -	115 4 50	16769
Hessary Tor - -	32 9	28541
Whitchurch Steeple -	32 46 10	
Morwell Down -	13 38 40	11785
Cocks Tor - -	9 32 50	16765
Whitchurch Steeple -	156 48 30	
St. Budeaux - -	74 53 10	11945
Kit Hill -	14 35 50	45754
Stray Hill - -	90 31 0	
Stray Hill - -	15 27 0	6432
St. Budeaux -	16 36 40	5994
Witley - -	147 56 20	
Stray Hill -	4 20 0	5123
Witley - -	16 7 30	1380
Tamerton Foliot Steeple	159 22 30	
Stray Hill - -	100 12 10	8098
Witley -	45 22 20	11198
Beere Ferris Steeple -	34 25 30	

Triangles for the Survey of Cornwall.

Stray Hill - - -	42 29 0	15625
St. Budeaux -	87 43 0	10561
Landulph -	49 48 0	
Kit Hill - -	28 46 40	181
St. Stephen's -	0 5 45	52081
Kit Hill New Station -	151 7 35	
Kit Hill New Station -	8 16 10	37501
St. Stephen's -	19 48 50	15913
Bare Head -	151 55 0	
Bare Head - -	82 25 10	29481
St. Stephen's -	67 38 10	31600
Bradwood Widger Steeple	29 56 40	
Bare Head -	101 35 0	30888
St. Stephen's	53 50 20	37478
Stowford Steeple	24 34 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Bare Head -	158 28 0	11399	Kit Hill New Station	34 18 30	31245
St. Stephen's -	8 58 0	26844	Calstone Down -	128 58 20	22653
Bradstone Steeple -	12 34 0		Lamerton Steeple	16 43 0	
Bare Head - -	144 35 10	15118	Kit Hill New Station	83 54 0	12900
St. Stephen's -	17 14 20	29562	Calstone Down -	51 32 10	16381
Kelley Steeple - -	18 10 30		Beverton Down -	44 33 50	
Bare Head - -	146 32 10	26930	Beverton Down -	150 1 20	22735
St. Stephen's -	21 9 10	41151	Calstone Down -	17 28 50	37821
Stoke Clymesland Steeple	12 18 40		Landrake Steeple	12 30 0	
Bare Head - -	63 29	25319	Beverton Down -	36 5 50	19058
St. Stephen's - -	78 30	23120	Calstone Down -	85	11271
Lewannick Steeple -	38 0 50		Calstone Steeple -	58 54 10	
Kit Hill - -	26 14 20	44677	Beverton Down -	83 32 0	23498
St. Stephen's -	58 42 10	23116	Kit Hill New Station	66 17 30	25501
Lewannick Steeple -	95 3 30		St. Ive Steeple -	30 10 30	
Kit Hill -	31 54 40	59699	Kit Hill Old Station	29 11 14	25390
St. Stephen's - -	87 27 0	31588	Carraton Hill -	47 42 50	16736
Bradwood Widger Steeple	60 38 20		St. Ive Steeple -	103 5 56	
Kit Hill - -	1 8 20	49881	Beverton Down -	78 1 0	43303
St. Stephen's -	24 9 10	2423	Kit Hill New Station	84 43 40	42539
St. Stephen's Steeple	154 42 30		St. Cleer Steeple -	17 15 20	
Kit Hill New Station -	40 42 30	11560	Beverton Down -	35 52 30	23897
Brent Tor - -	12 19 20	35330	Kit Hill New Station	114 46 40	15424
Calstone Down -	126 58 10		South Hill Steeple	29 20 50	
Kit Hill New Station -	93 12 40	35363	Kit Hill Old Station	19 31 2	19522
Calstone Down -	69 1 0	37814	Carraton Hill -	15 22 32	15494
Landrake Steeple -	17 46 20		South Hill Steeple	145 6 26	
Kit Hill New Station -	97 16 30	36577	Beverton Down -	40 49 50	46472
Calstone Down -	65 57 0	39732	Kit Hill New Station	126 1 5	37699
Lawhitton Steeple -	16 46 30		North Hill - -	12 58 20	
Kit Hill New Station -	86 38	26006	Beverton Down -	146 59 50	11106
Calstone Down -	68 52 10	27832	Kit Hill New Station	15 14 0	23023
Dunterton Steeple -	24 29 50		Pillaton Steeple -	17 46 10	
Kit Hill New Station -	12 40 20	11029	Kit Hill New Station	21 27 -	21217
Calstone Down -	32 46 0	18803	Calstone Down -	136 32 20	11280
Stoke Clymesland Steeple	34 33 40		Calstone Steeple -	22 0 40	
Kit Hill New Station -	50 49 20	18946			
Calstone Down -	91 35 30	14692			
Sydenham Steeple -	37 35 10				

Names of Stations and intersected Objects	Angles for Calculation. °	′	″	Distances in Feet.
Liskeard Steeple from Bindown 22885 feet.				
Liskeard Steeple -	36	19	4	12391
Bindown - -	29	38	20	14844
St. Kean Steeple -	114	2	0	
Liskeard Steeple -	37	33	0	17888
Bindown - -	51	23	50	13950
Centre of Coldrinick House	91	3	10	
St. Cleer Steeple -	21	50	0	13949
Bindown - -	48	12	56	27967
Coldrinick House -	109	57	4	
Liskeard Steeple -	26	36	30	13979
Bindown - -	31	5	0	12127
Clicker Tor - -	122	18	30	
Liskeard Steeple -	20	1	45	1395[illegible]
Menhiniott Steeple -	59	11	20	48[illegible]3
Clicker Tor -	100	46	55	
Liskeard Steeple -	34	1	40	13800
St. Cleer Steeple -	82	23	24	7791
East Chimney of Fosnooth House - -	63	34	56	
Liskeard Steeple -	118	44	40	13790
St. Kean Steeple -	32	26	20	23055
Fosnooth House -	28	49	0	
St. Cleer Steeple -	33	50	30	31869
Liskeard Steeple -	128	43	4	22548
Padderbury Beacon -	17	46	16	
Liskeard Steeple -	42	15	0	16359
Bindown New Station -	67	52		22538
Padderbury Beacon -	69	52	40	

N. B. In the last Triangle the distance between Liskeard Steeple and Bindown New Station is taken at 22845 feet.

Names of Stations and intersected Objects	°	′	″	Distances in Feet.
Duloe - -	27	56	0	20805
Bindown Old Station	116	22	0	10877
Penhale Signal Staff	35	42	0	
Liskeard Steeple -	42	16	0	23776
St. Cleer Steeple	107	46	24	16793
Berry Down -	29	57	36	

Names of Stations and intersected objects.	Angles for Calculation °	′	″	Distances in Feet.
Bindown - -	14	59		27865
St. Cleer Steeple -	40	51	30	11012
Turret on the West end of Trengrobe House	124	9	28	
Carradon Hill -	59	33	13	25594
Liskeard Steeple -	68	19	0	23743
Berry Down - -	52	7	47	
St. Cleer - -	47	9	0	23739
Bindown - -	42	19	27	25848
Quethiock Steeple -	90	31	33	
Carradon Hill -	37	28	52	37353
Kit Hill - -	80	32	43	23041
Callaton Steeple -	61	58	25	
Carradon Hill -	28	16	52	25330
Kit Hill - -	47	11	4	16361
Cadson Bury - -	104	32	4	
Carradon Hill -	48	27	37	47177
Kit Hill - -	85	31	43	35[illegible]77
Landrake Steeple -	45	0	40	
Kit Hill - -	30	21	40	39148
Landrake Steeple -	85	23	0	19551
Padderbury Beacon -	64	15	20	
Padderbury Beacon -	50	24	30	8580
Landrake Steeple -	24	26	30	158[illegible]
Tree near Trerule Foot	105	9	0	
Landrake - -	52	12	0	9961
Trerule-Tree -	38	56		12525
Ways Wandra House -	88	52	0	
St Stephen's Down -	18	41	30	29426
Kit Hill - -	21	9	35	[illegible]6126
Dunterton Steeple -	140	8	55	
St. Stephen's Down -	58	42	57	22966
Kit Hill - -	25	57	32	44833
Lewannick Steeple -	95	20	21	
Bindown - -	52	28		10465
Penhale Signal Staff -	65	58		9436
St. Martin's Steeple -	61	34	0	

Names of Stations and intersected Objects.	Angles for Calculation ° ′ ″	Distances in Feet
Bindown	42 44 0	11698
St. Martin's Steeple	76 44 0	8156
West Chimney of Trevory Farm House	60 32 0	
Bindown	91 59 11	24932
St. Cleer Steeple	34 36 0	43780
Summer Lane Head	53 24 49	
Bindown	25 10 30	25510
Landrake Steeple	46 31 18	14954
Clump of Trees near Polbathick	108 18 12	
Bindown	47 56 0	22448
Landrake Steeple	42 16 0	24777
St. German's Beacon	89 48 0	
Bindown	11 27 30	23611
St. German's Beacon	98 25 0	4742
St. Winnowe Steeple	70 7 30	
St. German's Beacon	51 48 30	25987
Bindown	72 39 0	21390
House on Looe Island	55 32 30	
Bindown	24 51 30	14980
St. German's Beacon	35 25 0	10866
Penhale Signal Staff	119 43 30	
Bindown	42 55 30	37087
Liskeard Steeple	99 36 0	25617
Broad Oak Station	37 28 30	
Liskeard Steeple	28 7 0	26854
Broad Oak Station	81 35 0	12793
Bury Hill Beacon	70 18 0	
Liskeard Steeple	117 29 52	26816
St. Cleer Steeple	43 44 50	34400
Bury Hill Beacon	18 45 18	
Lansallos Station	87 9 0	12077
Boconnoc Obelisk	21 43 0	30886
Lantaglos Barrow	71 8 0	
Lansallos	49 48 0	12072
St. Veep Steeple	49 10 0	12188
Lantaglos Barrow	81 2 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Lansallos	59 40 0	8059
St Veep Steeple	30 45 0	13605
Gate near Pencarrow Point		
St. Veep Steeple	86 4 0	11951
Lantaglos Barrow	46 22 0	16474
House at Castle Dor	47 34 0	
St. Veep Steeple	41 56 0	22054
Lantaglos Barrow	105 58 30	15320
Greber Head Signal Staff	32 5 30	
St. Veep Steeple	38 29 10	12313
Greber Head Signal Staff	31 40 32	14593
Castle Dôr Station	109 50 18	
Greber Head	18 20 0	14558
Lanlivery	14 58 0	17731
Castle Dôr	146 42 0	
Greber Head	38 35 0	13571
Castle Dôr	64 53 30	9347
Warehouse on Par Sands	96 31 30	
Greber Head	37 25 0	19024
Castle Dôr	92 39 0	11572
St. Blazey Steeple	49 56 0	
Castle Dôr	27 46 0	9316
St. Blazey Steeple	52 31 0	5469
Par Sands Warehouse	99 43 0	
Greber Head	40 50 0	23127
Castle Dôr	100 56 30	15402
Prideaux Warren Steeple	38 13 30	
Greber Head	115 13 0	19800
Castle Dôr	37 54 0	29161
Black Head	26 53 0	
Greber Head	17 13 0	27423
Prideaux Warren	110 42 0	8677
Carngrey Rock	52 5 0	
Prideaux Warren	86 28 0	8080
Carngrey Rock	44 40 0	11472
Luxulian Steeple	48 52 0	
Prideaux Warren	61 32 0	13896
Luxulian Steeple	83 12 0	12302
Barrow on Carleddon Down	35 16 0	

Names of Stations and intersected Objects.	°	'	"	Distances in Feet
Bodmin Down -	43	41	0	18889
Lanlivery Steeple -	36	12	0	22090
The Highest Barrow on Four Barrow Hill -	100	7	0	
Bodmin Down -	37	33	0	10339
Lanlivery Steeple -	15	8	3	24126
Bodmin Beacon -	127	18	3	
Bodmin Down - -	81	14	0	10297
Four Barrow Hill -	30	30	0	20097
Bodmin Beacon -	68	16	0	
Bodmin Down - -	45	21	0	9076
Four Barrow Hill -	27	18	0	14079
Castle Kenyoc -	107	21	0	
Four Barrow Hill -	45	11	30	8729
Lanlivery Steeple -	21	14	0	17099
St. Nighton Station -	113	13	30	
Four Barrow Hill -	37	45	30	16580
Lanlivery Steeple -	48	30	0	13586
St. Winnow Station -	93	44	30	
Lanlivery Steeple -	27	16	0	13558
St. Nighton Station -	50	54	0	8003
St. Winnow Station -	101	50	0	
St. Winnow Station -	47	59	0	9614
St. Nighton Station -	77	38	0	7314
Restormel Castle -	54	23	0	
St. Winnow Station -	77	18	0	6089
St. Nighton Station -	41	43	0	8927
Lestwithiel Steeple -	61	1	0	
Bodmin Down -	59	13	0	24743
Four Barrow Hill -	73	40	30	22150
Helmen Tor - -	47	6	30	
Bodmin Down - -	93	17	0	25583
Four Barrow Hill -	51	26	50	32659
Lanivet Station -	35	16	10	
Bodmin Down -	12	59	0	6716
Bodmin Beacon -	21	41	0	4084
Bury Tower - -	145	20	0	
Bodmin Down -	40	34	0	22332
Four Barrow Hi -	82	27	0	14650
Chimney of Turnpike House	56	59	0	

Names of Stations and intersected Objects.	°	'	"	Distances in Feet.
Bodmin Down -	111	27	0	6333
Four Barrow Hill -	15	32	0	22009
Council Barrow -	53	1	0	
Bodmin Down -	81	42	0	13511
Four Barrow Hill -	38	17	0	21580
St. Belermine's Tor -	60	1	0	
Bodmin Down -	56	24	46	21923
Four Barrow Hill -	69	41	0	19475
Warleggon Church -	53	54	14	
Bodmin Down -	134	13	54	21951
Hensbarrow - -	14	5	30	64594
Warleggon Church -	31	40	3	
Bodmin Down -	46	36	0	28009
Four Barrow Hill -	91	0	0	2[illegible]354
Direction Post, Crowland Cross . -	42	24	0	
Bodmin Down -	78	21	33	21810
Lanivet Station -	45	14	30	30082
St. Mabyn Steeple -	56	23	57	
Bodmin Down -	93	49	15	21786
Hensbarrow - -	24	1	0	53413
St. Mabyn Steeple -	62	9	45	
Bodmin Down -	42	44	0	29320
Bodmin Beacon -	119	26	0	22852
Barrow on St. Breock's Down - -	17	50	0	
St. Mabyn's Steeple -	42	48	0	25406
Brownwilly - -	33	49	0	31017
St. Teath Steeple -	103	23	0	
Hensbarrow - -	8	42	45	63990
St. Mabyn Steeple -	135	19	30	13787
St. Kew Steeple -	35	57	41	
Bodmin Down -	144	58	39	28794
Hensbarrow -	13	7	5	72818
St. Bruard Steeple -	21	54	16	
Hensbarrow - -	4	17	46	65623
St. Mabyn Steeple -	157	42	24	12958
St. Tudy Steeple -	17	59	50	
Hensbarrow - -	6	34	56	86530
Cadon Barrow -	31	47	57	18824
St. Advent Steeple -	141	37	7	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
St. Bruard Steeple	12 13 0	19403	Brownwilly -	36 9	17123
Brownwilly -	53 49 0	5087	Tober - -	116 16	11250
Rough Tor -	113 58 0		Brocha Barrow	27 35	
St. Bruard Steeple	71 36	28682	Brownwilly -	24 2 0	17101
Brownwilly -	64 37	30124	Tober -	134 13 0	9718
Carburrow -	43 47 0		Four-holes Cross	21 45 0	
St. Bruard Steeple	45 15 0	15642	Carradon Hill	105 49 10	26198
Brownwilly -	45 24 0	15601	Bindown -	26 54	55710
Ox Tor -	89 21 0		Brown Gilley	47 16 50	
St. Bruard Steeple	19 26	25692	Brownwilley -	24 0 0	26810
Brownwilly -	104 49	8842	Carradon Hill	24 40 0	26120
Tober -	55 45 0		Brown Gilley	131 20	
St. Bruard Steeple	37 57 30	11161			
Tober -	22 7 0	18234			
Carbilley Tor	119 55 30				

ART. V. *Secondary Triangles for the Survey of the Western Part of Cornwall, Plate* V.

The Distances serving as Base Lines to the following Triangles are,

Pertinney to	Sennen -	17520 feet
	Karnminnis	41407
Karnbonellis to	Deadman - -	101084
	St. Erme Steeple -	66303
	Karnminnis - -	71578
St. Agnes to	Hensbarrow -	97085
	Karnminnis -	84610
Hensbarrow to	St. Dennis Steeple -	15359
	St. Cubert Spire -	69141
	Deadman Signal Staff	59696
	St. Breoc Stone -	56571
Lansallos to Bodmin Down -		61497

Pertinney -	66 25 30	12751	Pertinney -	127 45 0	6090
Sennen Steeple	43 15 25	17054	Sennen Steeple -	12 46 10	21788
St. Buryan Steeple	70 19 5		Karngewney Station	39 28 50	
Pertinney - -	17 8 0	20077	Pertinney - -	21 55 0	26433
Sennen Steeple -	105 44 0	6145	Sennen Steeple -	125 22 0	12699
Bajester, New House	57 8 0		Karnkinnejack Rock	32 43 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	'	"	Distances in Feet.
Pertinney - -	14	46	0	24851
St. Buryan Steeple -	150	41	0	12937
Titterdieu Signal Staff	14	33	0	
Sennen Steeple -	14	27	0	16284
St. Buryan Steeple -	72	27	0	4262
Lear Farm -	93	6	0	
Sennen Steeple -	42	59	0	17512
St. Buryan Steeple -	70	26	0	12671
Pertinney Fire Beacon	66	35	0	
Sennen Steeple -	79	52	0	12857
St. Buryan Steeple -	40	33	0	19468
Levan Signal Staff -	59	35	0	
Sennen Steeple -	130	49	0	5632
St. Buryan Steeple -	11	37	0	21169
Pendennick Signal Staff	37	34	0	
St. Buryan Steeple -	98	29	0	12944
Levan Signal Staff -	30	55	0	24918
Titterdieu Signal Staff -	50	36	0	
St. Buryan Steeple -	8	32	0	11192
Levan Signal Staff -	11	11	0	8562
Tredrinnon Farm -	160	17	0	
Sennen Steeple - -	50	57	0	5641
Levan Signal Staff -	25	13	0	10283
Pendennick Signal Staff	103	50	0	
Sennen Steeple -	82	22	0	4920
Levan Signal Staff -	21	47	0	13141
Stone, Land's End -	75	51	0	
Levan Signal Staff -	5	14	0	12790
Stone, Land's End -	70	53	0	123[illegible]
Arm and Knight's, Land's E	103	53	0	
Sennen Steeple -	93	47	0	19173
Stone, Land's End -	72	5	0	20107
The Sisters - -	14	8	0	
Pertinney - -	16	14	0	35000
Karnminnis -	51	25	40	12515
Rogers Tower, Castle Dennis - -	112	20	20	
Pertinney - -	48	4	0	68826
Karnminnis - -	95	7	10	51406
Tregonning Signal Staff	36	48	50	

Names of Stations and intersected Objects.	Angles for Calculation. °	'	"	Distances in Feet.
Pertinney - -	9	10	0	24592
Karnminnis - -	12	53	0	17571
Barrow near Karn Galver	157	57	0	
Pertinney - -	0	7	30	41469
Karnminnis - -	124	29	0	109
Karn of Stones near Karnminnis - -	55	23	30	
Pertinney - -	9	10	0	24593
Karnminnis - -	12	53	0	17571
Karn near Karn Galver	157	57	0	
Pertinney - - -	13	20	0	38243
Rogers Tower -	104	5	0	9093
Ludgvan Steeple - -	62	35	0	
Pertinney -	68	14	30	12113
Rogers Tower -	20	14	30	32517
Karnkinnejack Rock -	91	31	0	
Pertinney -	36	14	0	22578
Rogers Tower -	38	29	0	18678
Chume Hill middle Karn	105	17	0	
Pertinney - -	20	1	0	21228
Rogers Tower -	25	46	0	16715
Steam Engine, Chume Hill	134	13	0	
Pertinney - -	14	31	40	27397
Rogers Tower -	38	39	0	10968
Mulfra Cromleche -	126	49	20	
Pertinney - -	29	26	0	39347
Rogers Tower -	87	50	0	19349
St. Michael's Mount -	62	44	0	
Pertinney -	21	39	0	22565
Mulfra Cromleche -	52	44	0	10461
Chume Hill Karn -	105	37	0	
Pertinney - -	86	38	0	12749
Ludgvan Steeple -	18	45	0	39595
St. Buryan Steeple -	74	37	0	
Pertinney - -	36	20	0	24067
Ludgvan Steeple -	37	6	0	23640
St. Paul's Steeple -	106	34	0	
St. Buryan -	23	28	0	18717
Ludgvan Steeple -	18	23	0	23633
St. Paul's Steeple -	138	9	0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
St. Buryan Steeple	67 55	12445	Pertinney - -	24 34	10864
St. Paul's Steeple	39 26	18171	Karnennis - -	38 47	7210
Beacon Hill Karn	72 39		KarnEast of Karnkinnejac	116 39	
St Buryan Steeple	8 52	12541	Pertinney - -	122 33	17520
Beacon Hill Karn	88 6 0	1934	Karnennis - -	30 38	28974
St Creed Steeple	83 2		Sennen Steeple -	26 48 2	
Ludgvan Steeple -	50 46	10907	Sennen Steeple -	23 49	20328
St. Paul's Steeple -	26 47	18749	Karnennis -	38 20 5	13231
St. Michael's Mount	102 27		Cape Cornwall -	117 50 1	
Ludgvan Steeple -	61 45	9023	Ludgvan Steeple -	51 0	20509
St. Paul's Steeple	22 19	20933	St. Michael's Mount -	97 9	16063
Marazion Staff -	95 56		Gwavias Battery -	31 51	
Ludgvan Steeple -	77 7	15561	Ludgvan Steeple -	42 57	26316
St. Paul's Steeple	36 57	25235	St. Michael's Mount -	114 59	19782
Perran St. Uthnoe Steeple	65 56 0		Mousehole Battery -	22 4	
Ludgvan Steeple	72 22 30	23052	Ludgvan Steeple -	61 11 3	13889
St. Paul's Steeple	52 50 0	27570	St. Michael's Mount -	70 54	12879
Caddan Point -	54 47 30		Penzance Spire -	47 54 3	
Pertinney - -	39 51	10267	St. Paul's Steeple -	3 47	21414
Karngewney -	05 14	6818	St. Michael's Mount -	51 39	2976
St. Just Steeple -	34 55 0		Marazion Chapel -	124 34	
Pertinney - -	49 6	9286	St. Paul's Steeple -	19 39 0	46452
Karngewney -	89 55	7019	St. Michael's Mount -	48 0	29477
Karnbesavern -	40 59 0		Tregonning Signal Staff	12 21	
Pertinney - -	34 49	15501	St. Paul's Steeple -	37	16671
Chume Hill -	41 56	13244	St. Michael's Mount -	61 22	11655
Karnennis - -	103 15 0		Gulval Steeple -	80 47	
Pertinney - -	51 4 0	21224	St. Paul's Steeple -	21 42	17587
Karnennis - -	82 32 0	16605	St. Michael's Mount -	69 41	6934
Steam Engine, Chume Hill	46 24 0		Long Rock, Stone -	68 37 0	
Pertinney -	34 38 0	10243	Gwavias Battery -	41 35	22865
Karnennis - -	39 27 30	9160	Ludgvan Steeple -	7 21	15533
St. Just Steeple -	105 54 30		Perran, St. Uthnoe Steeple	61 4 0	
Pertinney -	43 52	9259	Gwavias Battery	58 11 0	25864
Karnennis - -	36 1	10912	Ludgvan Steeple	72 38 0	23027
Karnbesavern -	100 7 0		Cuddan Point	49 11 0	
Pertinney - -	49 47 0	13824	Gwavias Battery	19 43 0	7282
Karnennis - -	58 5 0	12436	Ludgvan Steeple	10 12 0	3872
Flagstaff near St. Just	72 8 0		Penzance Spire	150 5 0	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Gwavias Battery -	6	24	0	14436
Ludgvan Steeple -	14	38	0	6369
Long Rock Stone -	158	58	0	
Gwavias Battery -	20	50	0	6708
Long Rock Stone -	16	17	0	8508
Penzance Battery -	142	53	0	
Gwavias Battery -	5	6	0	18622
St. Michael's Mount -	146	20	0	2986
Marazion Chapel -	28	34	0	
Gwavias Battery -	19	37	0	26838
St. Michael's Mount -	135	39	0	12889
Acton Castle -	24	44	0	
Tregonning Signal Staff	9	48	0	42098
Karnminnis - -	35	50	0	12242
Knill's Monument -	134	22	0	
Tregonning Signal Staff	33	42	0	29498
Karnminnis -	31	21	0	31458
St. Michael's Mount -	114	57	0	
Pertinney - -	5	42	0	51422
St. Michael's Mount -	156	58	0	12877
Acton Castle -	17	40	0	
Tregonning Signal Staff	43	30	0	42084
St. Michael's Mount -	92	2	0	28987
Knill's Monument -	44	28	0	
Rogers Tower -	37	6	0	29400
St. Michael's Mount - -	103	1	0	18202
Highest point of Clement's Isle - -	39	53	0	
Rogers Tower -	81	13	0	11549
St. Michael's Mount -	32	59	0	20965
Trecombe Hill Middle Karn - - -	65	48	0	
Tregonning Signal Staff	34	26	0	43157
St. Paul's Steeple -	66	1	0	26710
Rogers Tower -	79	33	0	
Tregonning Signal Staff	113	1	0	54856
St. Paul's Steeple -	36	38	0	84615
Windmill near the Lizard	30	21	0	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Pertinney - -	49	37	0	35025
St. Paul's Steeple -	87	3	0	20714
Rogers Tower -	43	20	0	
Rogers Tower -	81	54	0	10982
St. Paul's Steeple -	23	22	0	27413
Mulfra Cromleche -	74	44	0	
Rogers Tower -	48	45	0	29569
St. Paul's Steeple -	72	1	0	23373
Barrow east of Pertinney	59	14	0	
Rogers Tower -	30	33	0	14684
St. Paul's Steeple -	27	57	0	15851
Madern Steeple -	121	30	0	
Rogers Tower -	125	51	0	11559
St. Paul's Steeple -	15	38	0	34768
Trecombe Hill -	38	31	0	
Rogers Tower -	37	23	0	29388
St. Paul's Steeple -	79	20	0	18156
Beacon Hill, Karn -	63	17	0	
Rogers Tower -	106	45	0	12506
Barrow east of Pertinney	19	51	0	35268
Karnminnis -	53	24	0	
Rogers Tower -	51	35	0	10348
Karnminnis - -	53	8	0	10[illegible]4
Trenk Hill - -	75	17	0	
Rogers Tower - -	73	31	0	10965
Karnminnis -	48	12	20	14103
Mulfra Cromleche -	58	16	40	
Rogers Tower -	13	36	0	13644
Karnminnis - -	103	11	0	32951
Watch, highest West Karn	63	13	0	
Rogers Tower -	49	25	20	15829
Karnminnis - -	79	34	0	12224
Knill's Monument -	51	0	40	
Karnminnis Karn -	19	50	0	18803
Pertinney - -	15	1	0	24622
Karn Galver, South Karn	145	9	0	
Karnminnis - -	24	0	0	28271
Knill's Monument -	139	46	30	17806
Vicarage St. Earth -	16	13	30	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Karnminnis - -	102	36	0	5773
Knill's Monument -	22	40	0	14621
White Down Barrow -	54	44	0	
Karnminnis - -	104	31	0	109
Knill's Monument -	0	29	40	12260
Karnminnis Karn -	74	59	20	
Karnminnis -	27	43	0	35650
Knill's Monument -	139	40	0	25444
Godrevy Island, highest Point - - -	12	57	0	
Rogers Tower - -	36	29	30	10262
Knill's Monument -	38	49	40	9733
Towednack Steeple -	104	41	0	
St. Agnes Beacon -	113	55	0	189
Karnminnis - -	0	7	0	84687
St. Ann's Summer House	65	58	0	
St. Ann's Summer House	21	43	0	56626
Karnminnis - -	33	9	0	38316
Gwynier Steeple -	125	8	0	
St. Ann's Summer House	4	21	0	74036
Karnminnis - -	27	20	0	12230
Knill's Monument -	148	19	0	
St. Ann's Summer House	47	56	0	52376
Karnminnis - -	20	53	0	67424
Karnbreh, highest Karn	111	11	0	
St. Ann's Summer House	49	17	0	31605
Karnminnis - -	20	30	0	68402
Karnbreh Castle -	110	13	0	
Knill's Monument -	40	9	0	26119
St. Ann's Summer House	17	18	0	56634
Gwynier Steeple -	122	33	0	
St. Ann's Summer House	8	2	0	27106
Karnbreh Karn -	34	23	0	6708
Redruth, Market House	137	35	0	
St. Ann's Summer House	27	21	0	30447
Karnbreh Karn -	69	8	0	14970
Lord de Dunstanville's House - -	83	31	0	

Names of Stations and intersected Objects	Angles for Calculation. °	′	″	Distances in Feet.
St. Ann's Summer House	53	23	0	13559
Karnbreh Karn -	24	7	0	26617
West Barrow on Two Barrow Down -	102	30	0	
Gwynier Steeple -	20	4	0	18685
St. Ann's Summer House	9	19	0	39602
Camborne Steeple -	150	37	0	
St. Ann's Summer House	16	54	0	32388
Camborne Steeple -	47	33	0	12760
Karnbreh Karn -	115	33	0	
Karnbreh Karn -	80	5	0	11732
Camborne Steeple -	47	6	0	15777
Illogan Steeple -	52	49	0	
Karnbreh Karn -	84	41	0	20339
Camborne Steeple -	61	46	0	22988
Poltowen Signal Staff -	33	33	0	
Camborne Steeple -	19	59	0	37307
St. Ann's Summer House	70	24	0	13534
West Barrow on Two Barrow Down -	89	37	0	
Camborne Steeple -	143	48	0	5986
Gwynier Steeple -	8	33	0	23780
Karnbreh House -	27	39	0	
Camborne Steeple -	91	30	0	12086
Gwynier Steeple -	32	27	0	22517
Ruskejeage Down -	56	3	0	
Camborne Steeple -	83	3	0	17532
Gwynier Steeple - -	46	25	0	24026
Crowan Beacon -	50	32	0	
Gwynier Steeple -	41	4	0	23770
Ruskejeage Down -	73	36	0	16278
Karnbreh House -	65	20	0	
St. Ann's Summer House	69	11	0	20669
West Barrow - -	72	13	0	20289
Perran Steeple - -	38	36	0	
St. Ann's Summer House	31	27	0	17919
West Barrow - -	100	37	0	9512
North Barrow on Four Barrow Down -	47	56	0	

Names of Stations and intersected Objects	Angles for Calculation ° ′ ″	Distances in Feet
St. Ann's Summer House	85 11 0	33407
North Barrow	65 34 0	36564
Carter's Rock	29 15 0	
St. Ann's Summer House	53 26 0	25293
North Barrow	81 59 0	20515
St. Days Engine House	44 35 0	
St. Ann's Summer House	48 19 0	3626
North Barrow	9 54 0	15752
St. Agnes Spire	121 47 0	
St. Ann's Summer House	65 34 0	30801
North Barrow	79 31 0	28519
Large Stone, Karnmarth Barrow	34 55 0	
West Barrow	123 4 0	13697
North Barrow	34 2 30	20505
Engine House, St. Days	22 53 30	
Mulfra Cromleche	22 53 0	7740
Karnminnis	23 21 0	7593
Gundry Karn	133 46 0	
Gundry Karn	0 47 40	7621
Karnminnis	104 22 0	108
Karnminnis Karn	74 50 20	
Gundry Karn	129 21 0	9131
Karnminnis Karn	27 46 0	15156
Rock on the Coast near Zennor	22 53 0	
Gundry Karn	41 26 0	3075
Karnminnis Karn	20 57 0	5692
Karn, Zennor Hill	117 37 0	
Rogers Tower	49 25 0	12623
Knill's Monument	51 32 0	12244
Karnminnis Karn	79 3 0	
Rogers Tower	73 32 0	11006
Karnminnis Karn	48 0 0	14203
Mulfra Cromleche	58 28 0	
Mulfra Cromleche	113 3 0	7925
Karnminnis Karn	22 51 0	18779
Karn Galver, South Karn	44 6 0	

Names of Stations and intersected Objects	Angles for Calculation ° ′ ″	Distances in Feet
Mulfra Cromleche	111 54 0	10050
Karnminnis Karn	27 27 0	20229
Karn Galver North Karn	40 39 0	
Rogers Tower	55 50 0	8715
Mulfra Cromleche	49 54 0	9389
Frear Farm, New House	74 36 0	
Karnminnis	30 6 0	38316
Tregonning Signal Staff	46 28 0	26506
Gwynier Steeple	103 26 0	
Karnminnis	9 15 30	33848
Tregonning Signal Staff	16 5[illegible] 0	18805
St. Hilary Spire	153 54 30	
Karnminnis	8 56 30	43783
Tregonning Signal Staff	39 50 30	10622
East House at Karnegey	131 13 0	
Tregonning Signal Staff	49 39 0	10624
Knill's Monument	12 57	30141
East House at Karnegey	117 24 0	
Tregonning Signal Staff	5 39 0	6215
East House at Karnegey	7 51 0	4480
St. Germowe Steeple	166 30 0	
Tregonning Signal Staff	22 6 0	7719
East House, Karnegey	44 28 0	5526
Trewagias Farm	105 26 0	
Tregonning Signal Staff	41 49 0	14611
East House, Karnegey	91 34 0	9746
Girling Farm	46 37 0	
Tregonning Signal Staff	128 33 0	5492
Gwynier Steeple	8 10 0	30235
St. Breage Steeple	43 17 0	
Gwynier Steeple	45 41 30	19129
St. Breage Steeple	39 3 0	21727
Crowan Steeple	95 15 30	
Tregonning Signal Staff	25 50 0	10613
St. Breage Steeple	131 17 0	6154
Sithney Steeple	22 53 0	
Karnminnis	30 34 0	51400
Karnbonellis	43 44 0	37811
Tregonning Signal Staff	105 [illegible] 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Karnminnis - -	27	5	0	44508
Karnbonellis - -	32	23	0	37835
Godolphin Hill -	120	32	0	
Karnbonellis - -	22	17	0	20898
Tregonning Signal Staff	23	13	0	20101
Saundry Hill Mine -	134	30	0	
Karnbonellis -	43	4	50	66343
Tregonning Signal Staff	103	13	15	46548
Park Loughs Signal Staff	33	41	55	
Karnbonellis - -	110	35	0	249
Tregonning Signal Staff	0	21	10	37900
Karnbonellis Barrow -	69	3	50	
Karnbonellis -	22	16	30	56379
St. Erme Steeple -	56	31	30	25620
St. Michael Penkeville	101	12	0	
St. Michael Penkeville	44	50	0	22762
St. Erme Steeple -	59	26	0	18638
St. Probus Steeple -	75	44	0	
St. Michael Penkeville	13	51	0	31419
St. Probus Steeple -	135	50	0	10794
Ladock Steeple -	30	19	0	
St. Probus Steeple -	81	22	0	26426
St. Erme Steeple -	60	41	0	29964
Trevidown - -	37	57	0	
Trevidown - -	64	18	0	11533
St. Probus Steeple -	25	52	30	23812
St Stephen's Steeple -	89	49	30	
Trevidown - -	13	24	0	16807
St. Probus Steeple -	21	8	0	10803
Ladock Steeple -	145	28	0	
Trevidown - -	10	18	0	26425
St. Probus Steeple -	84	50	0	4744
Trewithen House	84	52	0	
Trevidown -	32	35	0	46555
St. Probus Steeple -	117	3	0	28151
St. Michael Carhais Steeple	30	22	0	
Trevidown - -	45	15	0	51209
St. Probus Steeple -	104	49	30	37620
St. Goran Steeple -	29	55	30	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Karnminnis -	32	37	0	84696
Karnbonellis -	89	42	0	45653
St. Ann's Summer House	57	41	0	
Karnbonellis -	64	27	0	56380
St. Ann's Summer House	67	14	40	55160
St. Michael Penkeville	48	18	20	
Karnbonellis -	22	54	0	243
St. Ann's Summer House	0	7	10	45431
Barrow Karnbonellis -	156	58	50	
Karnbonellis -	62	41	30	37509
St. Ann's Summer House	49	44	30	43673
Barrowclose, Spry's Plantation Kea - -	67	34	0	
Karnbonellis Barrow -	112	11	0	14643
St. Ann's Summer House	14	54	0	52744
Stone, Stithians Down -	52	55	0	
Karnbonellis Barrow -	39	14	0	11980
Stone, Stithians Down -	54	43	0	9282
St. Stithians Steeple -	86	3	0	
St. Michael Penkeville	97	45	0	22754
St. Ann's Summer House	21	10	0	62442
St. Probus Steeple -	61	5	0	
St. Michael Penkeville	53	51	0	38166
St. Ann's Summer House	43	21	0	44899
Michaels Down Barrow	82	48	0	
Michaels Down Barrow	17	26	0	54396
St. Michael Penkeville	130	7	0	21310
St. Veryan Beacon -	32	27	0	
Michaels Down Barrow	23	52	0	26715
St. Michael Penkeville	38	12	0	17479
Kenwyn Steeple -	117	56	0	
Karnbonellis - -	87	21	0	246
St. Michael Penkeville	0	15	0	56368
Karnbonellis Barrow	92	24	0	
St. Michael Penkeville	39	29	0	27503
Karnbonellis Barrow -	26	27	0	39262
Three mile stone from Truro, towards Redruth - -	114	4	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
St. Michael Penkeville	13	5	0	47744
Karnbonellis Barrow -	47	35	0	14640
Stone, Stithians Down	119	20	0	
St. Michael Penkeville	145	48	0	22764
Karnbonellis Barrow -	9	39	20	76288
St. Probus Steeple -	24	32	40	
Karnbonell's Barrow -	8	17	0	81437
St. Probus Steeple -	110	10	0	12500
Tregoney Steeple -	61	33	0	
Knill's Monument -	7	6	30	10916
Gwynier Steeple -	5	3	0	15349
Lelant Steeple -	167	50	30	
Knill's Monument -	6	26	0	16075
Gwynier Steeple -	10	4	0	10304
Phillack Steeple -	163	30	0	
Knill's Monument -	88	25	0	8373
Gwynier Steeple -	17	55	0	27207
St. Ive's Battery -	73	40	0	
Knill's Monument -	93	56	0	6129
Gwynier Steeple -	12	58	30	27235
St. Ive's Steeple -	73	5	30	
Knill's Monument -	34	53	0	34712
Gwynier Steeple -	96	46	0	19991
Godolphin Hill -	48	21	0	
St. Ive's Steeple -	160	1	0	2358
Knill's Monument -	5	31	0	8384
St. Ive's Battery -	14	28	0	
St. Ive's Steeple -	71	23	0	16972
Knill's Monument -	87	28	0	16099
Philiack Steeple -	21	9	0	
St. Ive's Steeple -	52	30	0	13513
Knill's Monument -	101	4	0	10924
Lelant Steeple - -	26	26	0	
St. Ive's Steeple -	123	10	0	21568
Knill's Monument -	45	12	0	25445
Godrevy Island, highest Point - -	11	38	0	
St. Ive's Steeple -	13	19	0	1825
Knill's Monument -	5	31	0	4373
Tregenner Castle -	161	10	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Saundry Hill -	19	58	0	10821
Tregonning Signal Staff	20	24	30	10596
Sithney Steeple -	139	37	30	
Saundry Hill - -	29	33	0	13769
Karnbonellis -	37	17	0	11210
Crowan Beacon -	113	10	0	
Saundry Hill -	20	51	0	19289
Karnbonellis -	67	18	0	7442
Hangman Hill Barrow	91	51	0	
Saundry Hill - -	52	34	0	49322
Karnbonellis - -	12	20	0	16323
St. Wendron Steeple -	115	5	30	
Tregonning Signal Staff	17	54	0	35769
Park Loughs Signal Staff	41	18	30	16654
Cury Steeple - -	120	47	30	
Cury Steeple - -	36	53	0	14571
Tregonning Signal Staff	19	56	0	25651
Direction Post, Helston Down - -	123	11	0	
Cury Steeple - -	134	25	30	15681
Tregonning Signal Staff	13	28	20	48068
Dry Tree - -	32	6	10	
Park Loughs Signal Staff	36	17	0	256[illegible]
Cury Steeple - -	104	47	0	15084
Dry Tree - -	38	56	0	
Cury Steeple - -	84	20	6	6828
Dry Tree - -	24	20	30	16487
Mullyan Steeple -	71	13	30	
Cury Steeple - -	97	34	0	14558
Dry Tree - -	39	21	0	22761
Direction Post, Helston Down - -	43	5	0	
Park Loughs Signal Staff	46	42	0	30608
Dry Tree - -	78	15	0	22753
Direction Post, Helston Down - -	55	3	0	
Direction Post -	43	44	0	21379
Dry Tree - -	63	41	0	16488
Mullyan Steeple -	22	35	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Direction Post, Helston Down	120	51	0	13158
Dry Tree	20	57	0	31593
Wendron Mine	38	12	0	
Tregonning Signal Staff	11	8	0	18343
Direc. Post, Helston Down	24	50	0	8433
Helston Steeple	144	2	0	
Tregonning Signal Staff	20	7	0	60652
Dry Tree	113	4	0	22673
Grade Steeple	46	49	0	
Tregonning Signal Staff	18	7	0	53472
Dry Tree	99	24	0	16853
Ruan Major Steeple	62	29	0	
Tregonning Signal Staff	14	38	30	61026
Dry Tree	125	26	0	18932
Roscreage Fire Beacon	39	55	30	
Tregonning Signal Staff	72	49	0	37913
Dry Tree	44	43	0	51290
Karnbonellis Barrow	63	8	0	
Dry Tree	64	44	0	43460
Roscreage Fire Beacon	89	26	0	39304
Stithians Down, Stone	25	50	0	
Dry Tree	49	4	0	8866
Roscreage Fire Beacon	27	1	40	14740
St. Martin Steeple	103	54	20	
Dry Tree	18	42	0	21539
Roscreage Fire Beacon	101	58	0	7059
St. Keverne Spire	59	20	0	
Dry Tree	34	59	0	18593
Roscreage Fire Beacon	70	50	0	11286
Manacka Steeple	74	11	0	
Dry Tree	63	9	30	42321
Roscreage Fire Beacon	90	15	30	37761
Haws Rock	26	35	0	
Dry Tree	65	44	30	26177
Roscreage Fire Beacon	71	10	0	25274
St. Constantine Steeple	43	5	30	
Dry Tree	60	33	50	36758
Roscreage Fire Beacon	88	26	10	32025
Pillaston Karn	31	0	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Dry Tree	24	12	0	28634
Roscreage Fire Beacon	121	27	0	13753
Mawnan Steeple	34	21	0	
Dry Tree	5	0	0	36778
Stithians Down, Stone	25	10	0	7537
Pillaston Karn	149	50	0	
Stithians Down, Stone	100	59	0	7545
St Michael Penkeville	8	34	0	49723
Pillaston Karn	70	27	0	
Dry Tree	6	32	0	38648
Pillaston Karn	100	13	0	4686
Mabe Steeple	63	15	0	
Pillaston Karn	20	4	0	21820
Roscreage Fire Beacon	33	0	0	13746
Mawnan Steeple	126	56	0	
Pillaston Karn	70	36	0	14105
Roscreage Fire Beacon	25	57	0	30405
St. Budock Steeple	83	27	0	
Pillaston Karn	80	51	0	43266
Roscreage Fire Beacon	59	31	0	49567
Gerrance Spire	39	38	0	
Pillaston Karn	84	5	0	37560
Roscreage Fire Beacon	53	0	0	46780
St. Teath Windmill	42	55	0	
Pillaston Karn	65	9	0	26538
Roscreage Fire Beacon	49	5	0	31868
St. Dennis Castle	65	46	0	
St. Dennis Steeple	106	54	0	13479
Hensbarrow Beacon	33	47	0	23194
Castle Ann Dennis	39	19	0	
Hensbarrow Beacon	42	36	0	23199
Cubert Spire	16	47	0	54381
Castle Ann Dennis	120	37	0	
St. Agnes Beacon	13	1	50	86805
Hensbarrow Beacon	57	36	40	23202
Castle Ann Dennis	109	21	30	
St. Agnes Beacon	49	56	40	94651
Hensbarrow Beacon	63	28	0	80978
Cow and Calf	66	35	20	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
St. Agnes Beacon -	34	48	0	62415
Castle Ann Dennis -	44	59	0	50391
St. Probus Steeple -	100	13	0	
Hensbarrow Beacon -	25	9	0	25699
Castle Ann Dennis -	90	21	0	10922
St. Wenne Steeple -	64	30	0	
Hensbarrow Beacon -	25	5	0	7927
Castle Ann Dennis -	11	51	0	16365
St. Roach Steeple -	143	4	0	
Hensbarrow Beacon -	57	22	0	26753
Castle Ann Dennis -	68	44	0	24176
Trevidown - -	53	54	0	
Hensbarrow Beacon -	19	48	0	18356
Castle Ann Dennis -	46	23	0	8589
Belovely Down Barrow	113	49	0	
Cubert Spire - -	34	32	0	14680
Castle Ann Dennis -	11	8	0	43099
Newlyn Steeple -	134	20	0	
Newlyn Steeple -	58	29	0	24391
Castle Ann Dennis -	34	[illegible]	0	36788
Mawgan Rock -	87	6	0	
St. Agnes Beacon -	17	23	0	43843
Cubert Spire -	116	48	0	14675
Newlyn Steeple -	45	49	0	
Trevidown - -	13	35	0	8205
Castle Ann Dennis -	6	47	0	16315
Barrow near the Indian Queen -	159	38	0	
Trevidown - -	82	27	0	9516
Castle Ann Dennis -	22	22	0	24791
St. Enodore Steeple -	75	11	0	
Stone, St. Breoc's Down	30	48	0	364
Hensbarrow Beacon -	0	17	40	36259
St. Breoc's Barrow -	148	54	20	
Hensbarrow Beacon -	6	20	30	25728
St. Breoc's Barrow -	14	53	0	11059
St. Wenne Steeple -	158	46	40	
Hensbarrow Beacon -	38	30	50	34125
St. Breoc's Barrow -	65	47	0	23300
St. Columb Major Steeple	75	42	10	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Hensbarrow Beacon -	81	17	0	74936
St. Breoc's Barrow -	71	24	50	78135
St. Cubert Rock -	27	18	10	
Hensbarrow Beacon -	9	19	0	38390
St Breoc's East Barrow	104	39	0	6425
St. Breoc's West Barrow	66	2	0	
St. Breoc's East Barrow	38	54	0	6432
St. Columb Major Steeple	12	27	0	18735
West Barrow -	128	39	0	
St. Breoc's East Barrow	43	25	0	17439
West Barrow -	117	30	0	13513
St. Issey Steeple -	19	5	0	
St. Breoc's East Barrow	68	12	0	45583
West Barrow -	103	56	0	43606
Rock, mouth of Alan River - -	7	52	0	
Karnbonellis - -	91	34	36	72565
Deadman - -	35	8	2	126045
Grade Steeple -	53	17	22	
Lansallos - -	39	54	10	67329
Bodmin - -	77	9	30	44299
Roach Steeple -	62	56	20	
Deadman Signal Staff	51	52	0	15512
Hensbarrow Beacon -	13	40	56	51582
St. Michael Carhais Steeple	114	27	4	
Deadman Signal Staff -	8	39	0	49757
Hensbarrow Beacon -	35	28	0	12897
Old Watch Barrow -	135	53	0	
Deadman Signal Staff -	9	36	0	40245
Old Watch Barrow -	33	40	0	12107
Unanimity Mine -	136	44	0	
Deadman Signal Staff	40	35	0	43536
Old Watch Barrow -	59	29	0	32876
St. Probus Steeple -	79	56	0	
St. Probus Steeple -	66	28	0	22579
Deadman Signal Staff	30	57	0	40252
Unanimity Mine -	82	35	0	
St. Probus Steeple -	10	46	0	37491
Deadman Signal Staff	45	15	0	9695
Goran Steeple -	122	59	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
St. Probus Steeple -	69	8	30	37477
Old Watch Barrow	60	51	0	40099
Goran Steeple -	50	0	30	
Unanimity Mine -	40	59	0	43077
Deadman Signal Staff	74	42	0	29290
Veryan Beacon -	64	19		
Goran Steeple -	19	44	0	33674
Old Watch Barrow -	53	32	0	14138
St. Austle Steeple -	106	44		

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Old Watch Barrow -	19	34	0	21408
St. Austle Steeple -	130	5	0	9371
Penrice House -	30	21	0	
Old Watch Barrow -	12	12	0	4255
St. Austle Steeple -	5	9	0	10019
Mawnan, or Grey Rock	162	39	0	
Old Watch Barrow -	14	14	0	11029
St. Austle Steeple -	38	8	0	4391
Mawnan Hill -	127	38	0	

ART. VI. *Secondary Triangles for the Survey of Dorsetshire. Plate* VI.

Wingreen - -	65	42	0	22265
Bulbarrow - -	18	43	0	63239
Trinity Steeple, Shaftsbury	95	35	0	
Wingreen - -	35	29	0	17274
Bulbarrow - -	10	20	0	55899
Melbury Hill -	134	11	0	
Wingreen - -	56	45	0	33099
Bulbarrow -	28	32	0	57949
Duncliffe Hill - -	94	43	0	
Wingreen - -	56	54	0	59304
Bulbarrow - -	53	34	0	61749
Badbury Rings -	69	32	0	
Wingreen - -	99	38	6	87990
Bulbarrow - -	45	59	45	120602
Ringwood Steeple -	34	22	9	
Wingreen - -	81	34	8	57251
Bulbarrow - -	43	1	54	82989
Horton Gazebo -	55	23	58	
Wingreen - -	45	26	18	75778
Bulbarrow - -	73	36	13	56280
Trenchard's Tower	60	57	29	
Wingreen - -	64	31	0	57412
Trinity Steeple -	92	41	30	51886
Bellchalwell Telegraph	22	47	30	

Wingreen - -	63	31	30	36967
Trinity Steeple -	80	5	0	33592
Hamilton Hill - -	36	23	30	
Wingreen - -	46	27	0	14207
Trinity Steeple -	39	32	0	16177
Direction Post, Blandford Road - -	94	1	0	
Wingreen - -	8	58	0	33262
Trinity Steeple -	153	55	0	11791
Duncliffe Hill -	17	7	0	
Wingreen - -	41	27	0	45043
Trinity Steeple -	111	5	0	31956
West Knoyle Steeple -	27	28	0	
Wingreen - -	19	55	0	25081
Trinity Steeple -	98	45	0	8644
Kingsettles -	61	21	0	
Wingreen - -	143	33	0	9152
Trinity Steeple -	10	24	0	30121
Winklebury Obelisk -	26	3	0	
Wingreen -	37	29	0	19605
Trinity Steeple -	60	39	0	13687
Ticklepath Hill -	81	52	0	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Wingreen	110	55	0	21048
Trinity Steeple	33	26	0	35684
Barrow near the seven mile stone on the Salisbury Road	35	39	0	
Ticklepath Hill	56	1	0	24319
Wingreen	73	24	0	21043
Barrow, seven mile Stone	50	35	0	
Wingreen	15	30	0	28477
Barrow, seven mile Stone	130	2	0	9939
Castle Ditches	34	28	0	
Wingreen	35	14	0	15563
Barrow, seven mile Stone	47	8	0	12250
Manwood Clump	97	38	0	
Wingreen	16	8	0	15612
Barrow seven mile Stone	35	39	0	7444
Windmill Hill	128	13	0	
Wingreen	95	14	0	57412
Bradley Knoll	36	29	0	96157
Bellchalwell Telegraph	48	17	0	
Wingreen	8	20	0	11132
Bradley Knoll	61	26	0	67464
Stour Head Obelisk	110	14	0	
Wingreen	18	13	0	65737
Bradley Knoll	64	53	0	22696
Pen Selwood Steeple	96	54	0	
Wingreen	11	51	0	75712
Bradley Knoll	97	25	0	15679
Alfred's Tower	70	44	0	
Wingreen	35	36	0	33972
Bradley Knoll	23	59	0	48653
Font-hill Abbey	120	25	0	
Wingreen	16	10	0	14195
Melbury Hill	47	21	0	5373
Direction Post, Blandford Road	116	29	0	
Wingreen	126	27	0	13000
Melbury Hill	22	42	0	27097
White Sheet Barrow		51	0	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Barrow, seven mile Stone	79	47	0	9671
Ticklepath Hill	22	50	0	24526
Firs, Castle Ditches	77	23	0	
Wingreen	11	54	0	68230
Bellchalwell Telegraph	123	35	0	16888
Houghton Down Clump	44	31	0	
Wingreen	44	38	0	37316
Bellchalwell Telegraph	40	21	0	40492
Blandford Telegraph	95	1	0	
Wingreen	33	49	0	67875
Bellchalwell Telegraph	88	27	0	37789
Clump of trees beyond Blandford	57	44	0	
Trinity Steeple	97	40	0	21614
Bullbarrow	17	57	0	69506
Gillingham Spire	64	23	0	
Trinity Steeple	13	28	0	38144
Bullbarrow	18	46	0	27612
Sturminster Steeple	147	46	0	
Ticklepath Hill	40	55	0	16998
Wingreen	58	44	0	13025
White Sheet Barrow	80	21	0	
Melbury Hill	21	54	0	33762
Bull Barrow	27	8	0	27612
Sturminster Steeple	130	58	0	
Bullbarrow	15	19	0	33497
Sturminster Steaple	117	57	0	10017
Manston Steeple	46	44	0	
Horton Gazebo	92	26	0	24811
Wingreen	23	2	0	63354
Pistle Down Telegraph	64	32	0	
Horton Gazebo	135	15	20	4230
Pistle Down Telegraph	6	6	40	27974
Chalbury Telegraph	38	38	0	
Horton Gazebo	50	21	0	34140
Pistle Down Telegraph	83	26	0	26460
Pentridge Hill	46	13	0	
Pentridge Hill	20	21	0	13607
Pistle Down Telegraph	19	3	0	14497
Cranborne Steeple	140	36	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Pentridge Hill	125	44	0	23969
Pistle Down Telegraph	25	41	0	44895
White Farm House on high ground	28	35	0	
Pentridge Hill	53	57	0	9638
Pistle Down Telegraph	20	33	0	22201
Direction Post near Bottle Clump	105	30	0	
Pentridge Hill	99	14	0	27363
Pistle Down Telegraph	41	12	0	41002
Inn, new Buildings Blandford Road	39	34	0	
Pistle Down Telegraph	75	22	0	62782
Wingreen	51	59	0	77111
Salisbury Spire	52	39	0	
Pistle Down Telegraph	58	26	0	27920
Wingreen	26	1	0	54234
Chalbury Telegraph	95	33	0	
Pistle Down Telegraph	18	52	0	26454
Wingreen	12	35	0	39265
Pentridge Hill	148	33	0	
Wingreen	21	17	0	50690
Pentridge Hill	113	25	0	20051
Summer House on the Wimborne Road from Cranborne	45	18	0	
Wingreen	32	32	0	29443
Pentridge Hill	47	38	0	21431
Caishmoor Windmill	99	50	0	
Wingreen	12	37	0	48851
Pentridge Hill	128	14	0	13584
Cranborne Steeple	39	9	0	
Pentridge Hill	79	38	0	14397
Direction Post, Bottle Hill	63	33	0	15818
Handley Steeple	36	49	0	
Wingreen	23	40	0	37993
Kingsettles	122	30	0	18084
East Knoyle Windmill	33	50	0	
Wingreen	25	38	0	35635
Kingsettles	114	34	0	16951
East Knoyle Steeple	39	48	0	

Names of Stations and intersected objects.	Angles for Calculation °	′	″	Distance in Feet.
Wingreen	46	25	0	33969
Kingsettles	86	8	0	24661
Font-Hill Abbey	47	27	0	
Wingreen	52	38	0	20656
Kingsettles	52	37	0	20661
Wardour Castle	74	45	0	
Wingreen	36	55	0	26665
Kingsettles	76	47	0	16452
Pit House	66	18	0	
Trinity, Steeple	38	10	0	8626
Ticklepath Hill	37	40	0	8723
Kingsettles	104	10	0	
Kingsettles	70	45	0	8958
Ticklepath Hill	55	42	0	10238
Sedgehill House	53	33	0	
Kingsettles	24	41	0	9526
Ticklepath Hill	89	2	0	3979
Semley Steeple	66	17	0	
Duncliffe	48	50	0	34213
Bullbarrow	36	1	0	43800
Stalbridge House	95	9	0	
Duncliffe	33	5	0	19382
Bullbarrow	14	14	0	43029
Marnhull Steeple	132	41	0	
Trinity Steeple	28	14	0	34708
Gillingham	118	38	0	18706
Mere Steeple	33	8	0	
Trinity Steeple	22	32	0	33323
Mere Steeple	72	54	0	13361
Silton Steeple	84	34	0	
Sturminster Steeple	42	21	0	7045
Trinity Steeple	8	12	0	33278
Hinton Steeple	129	27	0	
Hinton Steeple	53	53	0	27255
Trinity Steeple	51	59	0	27947
Iwerne, Minster Steeple	74	8	0	
Hinton Steeple	93	21	0	19643
Trinity Steeple	29	40	0	39618
Shillingstone	56	59	0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Hinton Steeple -	16 10	19380
Shillingstone - -	79 12	5493
Child Okeford -	84 38	
Wingreen - -	21 26 30	54248
Badbury Rings -	66 2 4	21700
Chalbury Telegraph .	92 30 4	
Badbury Rings -	9 55 30	25048
Chalbury Telegraph -	124 32 30	5241
Hauton New Inn -	45 32 0	
Badbury Rings -	70 56 0	17720
Chalbury Telegraph -	46 28 0	23101
Wimborne Steeple -	62 36 0	
Hauton New Inn -	55 5 0	11526
Chalbury Telegraph .	98 10 0	9547
Wichampton Steeple -	26 45 0	
Hauton Gazebo -	135 15 2	4230
Pistle Down Telegraph -	6 6 40	27974
Chalbury Telegraph -	38 38	
Wingreen - -	45 38	37312
Hamilton Hill - -	67 49	28805
Blandford Telegraph -	66 33	
Blandford Telegraph -	43 42	4855
Bellchalwell Telegraph -	5 11	37132
Twiss Barrow - -	31 7	
Twiss Barrow - -	24 46	6829
Blandford Telegraph -	32 40 0	10394
Busbury Barrow -	22 34 0	
Twiss Barrow -	69 9	10865
Busbury Barrow -	73 44 0	10576
Blandford Steeple -	37 7	
Blandford Steeple -	69 28 0	8119
Busbury Barrow -	44 32 0	10841
Station above Charleton -	6 0 0	
Blandford Steeple -	36 36	8106
Twiss Barrow - -	20 31	15299
Station near Charleton -	42 53	
White Sheet Barrow -	31 51	26588
Font-hill Abbey -	85 32	14073
Ridge Hill Clump -	62 37 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
White Sheet Barrow -	52 40	36516
Ridge Hill - -	81 18 0	29373
Compton Hut Clump -	46 2 0	
Ridge Hill - -	136 28	4094
White Sheet Barrow -	5 27 0	29690
Chilmark Spire -	38 5 0	
Wingreen - -	38 12	47339
Ridge Hill - -	85 54	29350
Compton Hut Clump -	55 54	
Font-hill Abbey -	3 15 0	48381
Compton Hut Clump -	157 43 0	7233
Clump east - -	19 2 0	
Compton Hut Clump -	48 2 30	8088
Clump east - -	73 7 0	6285
Barford St. Martin Steeple	58 50 30	
Compton Hut Clump -	127 25 0	12274
Clump east - -	33 34 0	17632
Baverstock - -	19 1 0	
Compton Hut Clump -	10 17 0	16286
Clump east - -	161 42 0	9259
Wilton Steeple -	8 1 0	
Nine Barrow Down -	24 8 36	65052
Ringwood - -	38 51 15	42415
Christ Church -	117 0 9	
Christ-Church - -	91 20 10	50242
Ringwood -	49 2 59	66503
Poole Steeple -	39 36 51	
Nine Barrow Down -	47 44 54	29399
Christ-Church -	25 39 58	50242
Poole Steeple -	06 35 8	
Nine Barrow Down -	48 33 16	83428
Christ Church - -	81 4 0	63303
Hauton Gazebo -	50 22 44	
Nine Barrow Down -	25 50 30	23101
Christ-Church - -	12 49 0	45392
Brownsea Castle -	41 20 30	
Nine Barrow Down -	21 54 20	23101
Poole Steeple - -	47 15 12	11736
Brownsea Castle -	10 50 28	

Names of Stations and intersected Objects.	Angles for Calculation. ° ″ ′	Distances in Feet
Christ-Church	14 14 32	37604
Brownsea Castle	45 58 2	12868
Poole Heath east Station	119 47 26	
Poole Steeple	63 28 0	12682
Brownsea Castle	61 51 0	12868
Poole Heath east Station	54 41 0	
Brownsea Castle	107 49 2	11737
Christ-Church	12 51 2	50242
Poole Steeple	59 19 56	
Black Down	8 7 40	102511
Nine Barrow Down	29 48 20	29158
Wareham Steeple	142 4 0	
Christ-Church	41 58 0	25111
Hauton Gazebo	20 37 0	47688
Maesbarrow	117 25 0	
Christ Church	18 22 0	13837
Maesbarrow	20 0 0	12748
House near Decoy Ponds	141 38 0	
Maesbarrow	5 53 0	28892
Hauton Gazebo	8 53 0	19178
Cannon Hill	165 14 0	
Poole Heath	90 3 0	30130
Christ Church	38 41 0	48206
Old Harry	51 16 0	
Poole Heath	97 32 0	32481
Christ-Church	37 34 0	52813
Studland Signal Staff	44 54 0	
Wareham Steeple	58 3 0	20480
Black Down	10 44 0	93306
Woolbarrow Station	111 13 0	
Poole Steeple	30 13 0	9919
Poole Heath	50 28 0	6467
Constitution Hill	99 19 0	
Poole Steeple	96 1 30	8221
Poole Heath	31 7 0	15820
Brownsea Clump	52 51 30	
Poole Heath	105 16 0	6462
Brownsea Castle	23 10 0	15848
Constitution Hill	51 34 0	

Names of Stations and intersected Objects.	Angles for Calculation ° ″ ′	Distances in Feet
Poole Steeple	59 47 0	11867
Constitution Hill	68 58 0	10982
Lilliput House	51 15 0	
Poole Steeple	65 13 0	15679
Constitution Hill	76 48 0	14621
Lilliput Lookout	37 59 0	
Constitution Hill	112 37 0	19518
Brownsea Castle	37 39 0	29496
Lytchet Beacon	29 44 0	
Poole Heath	93 22 0	25787
Brownsea Castle	60 48 30	29488
Lytchet Beacon	25 49 30	
Poole Steeple	31 41 30	17088
Constitution Hill	117 16 30	10100
Station on the Wimborne road from Poole	31 2 0	
Lytchet Beacon	30 55 0	15587
Constitution Hill	52 30 0	10095
Station on the Wimb. road	96 35 0	
Wareham Steeple	64 59 0	29960
Woolbarrow	73 57 0	28250
Lytchet Beacon	41 4 0	
Wareham Steeple	37 34 0	41949
Lytchet Beacon	97 20 0	25787
Poole Heath	45 6 0	
Wareham Steeple	42 39 0	14328
Poole Heath	17 10 30	32876
Black hill near Wareham	120 10 30	
Lytchet Beacon	26 20 30	40288
Wareham Steeple	110 54 0	19581
Corfe Castle	42 45 30	
Poole Heath	27 21 0	40910
Wareham Steeple	73 22 30	19615
Corfe Castle	79 16 30	
Wareham Steeple	43 42 0	14948
Lytchet Beacon	28 20 0	21759
Arne Clump	107 58 0	
Woolbarrow	133 58 30	17603
Wareham Steeple	21 10 30	35070
Black hill near Wareham	24 51 0	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Black Hill	96	35	0	41431
Poole Heath	47	34	0	55764
Swyre Barrow	35	51		
Wingreen	10	38	14	125534
Nine Barrow Down	73	32	14	24163
Creech Beacon	95	49	32	
Wingreen	27	4	38	57250
Nine Barrow Down	18	12		83422
Hauton Observatory	134	43	13	
Ringwood	58	44	0	7946
Christ Church	10	3	30	38888
David's Hut	111	12	30	
Ringwood	48	50		32690
Christ-Church	53	33		34930
Hembury Summer House	77	37	0	
Christ-Church	38	59	0	38909
Hembury Summer House	79	10	0	24922
David's Hut	61	51	0	
Ringwood	7	3	30	24435
Hembury Summer House	19	35	0	8958
Gibbet on Parley Common	53	21	30	
David's Hut	11	6		16881
Hembury Summer House	21	15		8967
Gibbet on Parley Common	47	39		
David's Hut	8	38	0	22298
Hembury Summer House	49	19	0	4413
Barrow near Hembury	22	3	0	
David's Hut	17	0	0	28853
Barrow near Hembury	122	7	0	9960
Cannon Hill	40	53	0	
Woolbarrow	59	9	0	28829
Black Hill	83	30	0	24910
Musson Down	37	21	0	
Black Hill	36	54	0	33316
Musson Down	94	57	0	20078
Houghton Clump	48	9	0	
Woolbarrow	48	13		30784
Musson Down	70	5		24415
Milborne Obelisk	61	42		

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Woolbarrow	104	20	30	16970
Wareham Steeple	33	40		29657
Gallows Hill	41	59	30	
Nine Barrow Down	27	44		65661
Bullbarrow	32	25	45	56979
Frampton Obelisk	119	50	1	
Wareham Steeple	18	53		39070
Gallows Hill	120	2		14606
Frampton Obelisk	41	5		
Woolbarrow	71	12		9330
Gallows Hill	32	19		16522
Barrow South	76	29		
Woolbarrow	48	24		8283
Black Hill	27	6		13597
Bloxworth Steeple	04	30		
Frampton Obelisk	27	3	5	7117
Gallows Hill	16	43	4	19730
Black Knoll	36	12	30	
Frampton Obelisk	65	53		15022
Black Knoll	85	55		13746
Wool Steeple	28	12		
Gallows Hill	8	42		25343
Black Knoll	44	14	0	6558
Winfrith Newburgh Steep.	27	4		
Wareham Steeple	40	54	0	48851
Gallows Hill	02	48		32799
High Chaldon	36	18		
Wareham Steeple	73	24		35093
Gallows Hill	52	31		29058
Rampart, Swyre Barrow	54	5		
Wareham Steeple	60	14	30	28748
Gallows Hill	58	20	30	29319
Lulworth Castle	61	25	0	
Wool Steeple	24	17		24137
Black Knoll	29	45		12911
High Chaldon	25	58	0	
High Chaldon	81	28	30	23947
Black Knoll	68	26	0	25465
Knighton House	30	5	30	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
High Chaldon	138	21	30	6080
Black Knoll	13	2	0	17916
Barrow near W. Lulworth Flagstaff	28	36	30	
High Chaldon	34	9	30	29758
Black Knoll	125	2	0	20406
Barrow near Aff-Piddle	20	48	30	
High Chaldon	46	9	30	23549
Black Knoll	101	19	30	17323
Direction Post Knighton Down	32	31	0	
Nine Barrow Down	15	28	23	109854
Black Down	54	29	40	36002
Wyke Regis Steeple	110	1	57	
Nine Barrow Down	7	54	33	103647
Black Down	30	35	42	28022
Dorchester Steeple	141	29	45	
Dorchester Steeple	54	5	30	17048
Black Down	37	27	0	22705
Ridgeway Station	88	27	30	
Black Down	51	3	30	14867
Wyke Regis Steeple	23	27	0	29057
Ashton Ridge	105	29	30	
Wyke Regis Steeple	15	30	0	26699
Ashton Ridge	64	59	0	7873
Ridgeway Hill	99	31	0	
Wyke Regis Steeple	62	24	0	39090
Ridgeway Hill	76	4	30	35690
Lulworth Flagstaff	41	31	30	
Wyke Regis Steeple	39	15	0	27583
Ashton Ridge	66	12	0	19074
Osmington Down	74	33	0	
Osmington Down	56	25	0	7487
Wyke Regis Steeple	14	54	0	24257
Bincum Down Barrow	108	41	0	
Osmington Down	72	11	0	5597
Bincum Down Barrow	42	42	0	7857
Preston Steeple	65	7	0	
Ashton Ridge	17	8	0	27628
Wyke Regis Steeple	71	56	0	8561
Barrow near Weymouth	90	56	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distance in Feet.
Black Down	44	19	0	52181
Ridgeway Hill	111	52	0	39281
East Signal Staff, Portland	23	49	0	
Black Down	49	6	30	56851
Ridgeway Hill	108	39	30	45361
Portland Spire	22	14	0	
Black Down	54	57	0	64130
Ridgeway Hill	105	3	30	54367
Portland Lighthouse	19	59	30	
Dorchester Steeple	54	51	0	42655
Ridgeway Hill	102	9	20	35677
Lulworth Flagstaff	22	59	40	
Black Down	36	47	30	45618
Dorchester Steeple	107	18	0	28615
Foxwell Flagstaff	35	54	30	
Dorchester Steeple	67	21	0	14739
Foxwell Flagstaff	30	40	0	26669
Fire Beacon on Piddle Town Heath	81	59	0	
Black Down	6	42	30	51679
Foxwell Flagstaff	133	23	30	8307
Ower Moigne Steeple	39	54	0	
Piddle Town Heath	12	23	0	14452
Foxwell Flagstaff	13	52	0	12931
Broad-Moyne	153	45	0	
Dorchester Steeple	35	10	0	8299
Piddle Town Heath	31	0	0	9280
West Stafford Steeple	113	50	0	
Dorchester Steeple	39	48	0	38386
Foxwell Flagstaff	92	2	30	24587
Frampton Obelisk	48	9	30	
Black Down	44	26	30	30983
Dorchester Steeple	74	51	0	22435
Godmanstone Down	60	43	30	
Black Down	69	0	0	29941
Godmanstone Down	54	4	30	34518
Aggerdon Hill	56	55	30	
Black Down	17	17	0	20673
Aggerdon Hill	31	3	0	11908
Compton Barrow	131	40	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Compton Barrow -	56	29	0	21200
Black Down - -	63	6	0	19819
Sea Barrow Clump -	60	25	0	
Compton Barrow -	19	30	0	35205
Sea Barrow Clump -	135	34	0	16787
Station on the right of the road from Sherborne to Dorchester - -	24	56	0	
Station right of road -	56	27	20	16368
Sea Barrow Clump -	60	25	30	15686
Dorchester Steeple -	63	7	10	
Compton Barrow -	30	3	0	24390
Sea Barrow Clump -	89	34	30	12213
GodmanstoneDownBarrow	60	22	30	
Compton Barrow -	49	27	0	17206
Sea Barrow Clump -	52	32	0	16472
Frampton Barrow -	78	1	0	
Godmanstone Down -	42	9	0	12190
Dorchester Steeple -	31	24	30	15697
Sea Barrow Clump -	106	26	30	
Aggerdon Hill -	39	52	0	12095
Compton Barrow -	71	18	0	8183
Long Bredy - -	68	50	0	
Frampton Barrow	47	[illegible]	30	9962
Sea Barrow Clump -	37	2	0	12204
Godmanstone Down -	95	25	30	
Frampton Barrow -	15	52	30	6155
Sea Barrow Clump -	9	4	0	10682
Frampton Steeple -	155	3	30	
Frampton Barrow -	68	45	30	11909
Godmanstone Down -	63	2	0	12457
Clump of trees North -	48	12	30	
Black Down - -	59	13	0	[illegible]56
Aggerdon Hill - -	37	4	0	25878
Abbotsbury Flagstaff -	83	43	0	
Abbotsbury Flagstaff -	33	49	0	26013
Aggerdon Hill -	73	35	0	15093
Shipton Beacon -	72	36	0	
Shipton Beacon -	85	42	0	17027
Aggerdon Hill -	53	8	0	21059
Puncknoll -	45	10	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Puncknoll - -	34	47	30	15918
Aggerdon Hill - -	48	40	30	12094
Long Bredy - -	96	32	0	
Long Bredy -	32	37	0	6354
Puncknoll - -	17	57	30	11108
Cheney Litton Steeple -	129	25	30	
Puncknoll - -	25	30	0	36777
Shipton Beacon -	135	36	0	22630
Symondsbury Hill -	18	54	0	
Puncknoll - -	70	40	0	36786
Aggerdon Hill -	75	39	0	35830
Symondsbury Hill -	33	41	0	
Puncknoll - -	69	30	0	35372
Aggerdon Hill -	75	20	0	34248
Symondsbury Steeple -	35	10	0	
Puncknoll - -	37	36	30	5804
Shipton Beacon -	15	54	30	12924
Swyre Barrow - -	126	29	0	
Shipton Beacon -	78	52	0	10130
Swyre Barrow -	42	11	0	14802
North Hill - -	58	57	0	
Shipton Beacon -	38	49	0	13769
North Hill - -	93	58	0	8651
Bridport Market-house	47	13	0	
Swyre Barrow -	22	0	0	8008
North Hill - -	22	8	0	7962
Green Cliff - -	135	52	0	
Shipton Beacon -	16	5	0	10186
Swyre Barrow - -	41	59	0	4218
Berwick Farm - -	121	56	0	
Shipton Beacon -	40	48	30	10151
Symondsbury Hill -	23	56	0	16352
North Hill - -	115	15	30	
North Hill -	52	19	0	5127
Symondsbury Hill -	17	4	0	13827
Lookout House, Bridport Harbour - -	110	37	0	
Shipton Beacon -	8	27	0	3739
North Hill - -	4	53	0	6455
Shipton Steeple -	166	40	0	

Names of Stations and intersected Objects.	°	′	″	Distances in Feet.
North Hill - -	29	35	0	3806
Symondsbury Hill -	8	12	0	13177
Bothenhampton Steeple	142	13	0	
Puncknoll - -	83	55	0	44945
Aggerdon Hill -	69	58	0	47569
Golden Cape Signal Staff	26	7	0	
Symondsbury Hill -	64	3	0	23550
Shipton Beacon -	59	48	0	24501
Warren Hill - -	56	9	0	
Symondsbury Hill -	40	52	0	34277
Shipton Beacon -	98	21	0	22668
Pegnorth - -	40	47	0	

Names of Stations and intersected Objects.	°	′	″	Distances in Feet.
Symondsbury Hill -	7	13	0	19313
Pegnorth - -	9	7	0	1[illegible]47
Round Hill, near Milton	163	40	0	
Symondsbury Hill -	64	0	0	24790
Pegnorth - -	43	35	0	32318
Lewson Hill - -	72	25	0	
Symondsbury Hill -	40	52		24767
Warren Hill -	73	26		16906
Lewson Hill - -	65	42		
Symondsbury Hill -	20	30	0	33201
Warren Hill - -	122	59	30	13863
Oak Tree North of Warren Hill - -	36	30	30	

ART. VII. *Secondary Triangles for the Survey of Hampshire, Part of Somersetshire, and Part of Wiltshire. Plate* VII.

The Distances serving as Base Lines for the following Triangles are

Dean Hill to	Beacon Hill -	58086 Feet.
	Ringwood Steeple	74367
	Farley Monument	53239
	Southampton Spire	74522
	Putsel Hill -	156122
	Highclere Beacon	125805
Butsel Hill to	Portsdown Hill -	52729
Wingreen to	Ringwood Steeple	87983
Beacon Hill to	Highclere Beacon	98694
	Bradley Knoll -	135272
Mendip Hill to	Bradley Knoll -	61963
	Dundry Beacon	69196

	°	′	″	Distances in Feet.
Dean Hill - -	42	53	0	60[illegible]70
Ringwood Steeple -	53	37	50	50936
Lyndhurst Steeple -	83	29	10	
Dean Hill - -	71	6	40	54340
Beacon Hill - -	51	46	30	65445
New Station on Stockbridge Hill -	57	6	50	
Dean Hill - -	53	21	30	35462
Beacon Hill -	37	37	10	46614
Salisbury Spire -	[illegible]	[illegible]	20	

	°	′	″	Distances in Feet.
Dean Hill	23	17	30	53233
Stockbridge Hill	75	29	50	21747
Farley Monument	81	12	40	
Dean Hill	15	2	0	14981
Stockbridge Hill -	5	34	0	40059
Cadbury Beech	159	24	0	
Dean Hill -	84	44	30	60275
Farley Monument	51	31	0	76677.
Lyndhurst Steeple	43	44	30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet
Dean Hill	45 12 20	33950
Farley Monument	39 24 40	37948
Heathcote's Pillar	95 23 0	
Dean Hill	70 47 0	41880
Farley Monument	45 4 0	55862
Caddenham Station	64 9 0	
Dean Hill	39 25 20	83562
Farley Monument	102 2 0	54256
Town Hill Telegraph	38 32 40	
Dean Hill	42 29 20	88921
Farley Monument	01 36 10	61314
Nettle Heath Clump	35 54 30	
Wingreen	8 42 48	87461
Ringwood Steeple	83 24 25	13338
Moyls Court Summer House	87 52 47	
Ringwood Steeple	52 39 30	15531
Moyls Court	72 24 0	12954
Picket Post Inn	54 56 30	
Dean Hill	25 36	41874
Heathcote's Pillar	01 54	18490
Caddenham Station	52 30	
Dean Hill	30 56	10703
Heathcote's Pillar	11 10	41753
Ayre's Summer House	37 54	
Dean Hill	28 10	32895
Heathcote's Pillar	72 19	16298
Half Moon Clump	79 31	
Dean Hill	5 46	50928
Heathcote's Pillar	62 59	17485
Toot Hill Telegraph	11 15	
Heathcote's Pillar	40 15	35268
Ayre's Summer House	56 56	27191
Branshaw Telegraph	82 49	
Branshaw Telegraph	156 28 0	8255
Ayre's Summer House	5 25 0	34915
Mr. Harben's House	18 7 0	
Branshaw Telegraph	56 54	30561
Ayre's Summer House	67 49 0	27712
Gallows Hill (Maze Hill)	55 17 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Ayre's Summer House	109 3 0	24745
Gallows Hill	33 10 0	42754
Pustle Lodge	37 47 0	
Ayre's Summer House	28 35 0	19683
Gallows Hill	42 5 0	14051
Clebury Rings	109 20 0	
Heathcote's Pillar	24 44	16303
Caddenham Station	61 38	7752
Half Moon Clump	93 38	
Heathcote's Pillar	91 18	30024
Caddenham Station	57 26	35616
White Parish Steeple	31 16	
Heathcote's Pillar	79 24	19519
Caddenham Station	52 10	24292
Rownham's SummerHouse	48 26	
Heathcote's Pillar	90 43	41755
Caddenham Station	65 31	45877
Ayre's Summer House	23 46	
Heathcote's Pillar	95 8	17483
Caddenham Station	40 58	26559
Toot Hill Telegraph	43 54	
Gallows Hill	56 5	13734
Clebury Rings	60 44	13065
Downton Steeple	63 11	
Farley Monument	12 6	37949
Lyndhurst Steeple	11 22	40362
Heathcote's Pillar	156 32 0	
Farley Monument	50 6	61313
Lyndhurst Steeple	51 33	60061
Nettle Heath Clump	78 21	
Farley Monument	18 39	5589
Heathcote's Pillar	8	32701
Farley Spire	158 13 0	
Farley Monument	105 44	44548
Heathcote's Pillar	40 36	65889
White Flood Clump	33 40 0	
Heathcote's Pillar	13 2 0	34176
Lyndhurst Steeple	47 29 0	10457
Minstead Steeple	119 29 0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.	Names of Stations and intersected Objects	Angles for Calculation	Distances in Feet.
Heathcote's Pillar -	23 32 0	34270	Eling Steeple -	114 19	7651
Lyndhurst Steeple -	56 50 0	16346	Romsey Steeple -	12 3	33399
Stoney Cross Inn -	99 38 0		Hunter's Inn -	53 38	
Heathcote's Pillar -	88 57 0	17483	Eling Steeple -	113 50	13450
Lyndhurst Steeple -	23 35 0	43691	Hunter's Inn -	43 14	17961
Toot Hill Telegraph -	67 28 0		Upton Steeple -	22 56	
Dean Hill - -	51 15 20	53233	Farley Monument	43 8	44566
Southampton Spire -	45 13 0	58496	Town Hill Telegraph -	54 30	37426
Farley Monument -	83 31 40		White Flood Clump -	82 22	
Dean Hill - -	76 21 1	74367	Farley Monument -	57 5	40220
Southampton Spire -	51 44 5	92027	White Flood Clump	55 41	41211
Ringwood Steeple -	51 53 5		Stoneham Summer House	66 20	
Dean Hill - -	0 10 4	74762	Farley Monument -	13 3	26956
Southampton Spire -	135 40 1	334	White Flood Clump -	18 24	19283
East Spire, *Southampton*	44 9		Ann's Hill Fire Beacon	148 33	
Farley Monument -	32 1	76668	Farley Monument - -	3 40	41076
Southampton Spire -	99 6	41165	White Flood Clump -	36 23	4428
Lyndhurst Steeple -	48 53		Owstlebury Steeple	139 57	
Dean Hill - -	7 47	59523	Farley Monument - -	16 20 5	45975
East Spire, *Southampton*	27 3	17726	White Flood Clump -	88 2 5	12948
Eling Steeple -	145 10 0		Gander Down Sum. House	75 36 1	
Dean Hill - -	19 45 30	74761	Stoneham Summer House	75 19	24472
Caddenham Station -	138 25	38078	White Flood Clump	34 4	42264
East Spire, *Southampton*	21 49 30		Nettle Heath Clump	70 37	
Dean Hill - -	34	88910	Stoneham Summer House	27 19	40469
East Spire, *Southampton*	134 46	18678	White Flood Clump -	74 12	19301
Nettle Heath - -	36 39 20		Ann's Hill Fire Beacon	78 29	
Dean Hill - -	13 46 0	33947	White Flood Clump -	7 27	42254
Eling Steeple - -	16 20	27753	Town Hill Telegraph -	29 13	7071
Heathcote's Pillar -	49 40		Nettle Heath Clump -	43 20	
Heathcote's Pillar -	41 1 40	40415	White Flood Clump -	82 50 30	25844
Eling Steeple -	95 53 10	26670	Town Hill Telegraph -	36 51 30	42751
Lyndhurst Steeple -	43 5 10		Yew Tree, *Liquant Farm*	60 18 0	
Heathcote's Pillar -	95 15	7813	[illegible]ite Flood Clump -	25 20	57788
Eling Steeple - -	15 17 10	29513	Nettle Heath Clump -	11 58 0	26662
Romsey Steeple -	69 27 50		St. Margaret's Farm -	42 42 0	
Heathcote's Pillar -	47 18	7816	White Flood Clump -	50 40	14862
Toot Hill Telegraph -	15 14 30	13472	Nettle Heath Clump -	36 0	13913
Romsey Steeple - -	107 27 30		Beacon Hill, near Exton	49 33 20	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
White Flood Clump -	108	16	0	19269
Nettle Heath Clump -	20	45	0	51659
Ann's Hill Fire Beacon -	50	59	0	
White Flood Clump -	97	42	20	38513
Nettle Heath Clump -	38	49	40	60871
Old Winchester Hill -	43	28	0	
Ann's Hill Fire Beacon -	18	43	0	57402
Nettle Heath Clump -	98	24	0	18619
East Spire, *Southampton*	62	53	0	
Ann's Hill Fire Beacon -	49	36	0	12511
White Flood Clump - -	40	27	0	14686
Barrow above Longwood Bottom - -	89	57	0	
Ann's Hill Fire Beacon -	59	41	30	24934
White Flood Clump -	72	42	30	22545
Stoke Hill Station -	47	36	0	
White Flood Clump -	78	16	0	12950
Beacon Hill - -	29	42	0	25591
Gander Down Summer House - - -	72	2	0	
Ann's Hill Fire Beacon -	86	54	0	5422
Barrow, *Longwood Bottom*	23	54	0	13364
Winchester Cathedral -	69	12	0	
White Flood Clump -	142	14	0	12925
Stoke Hill Station -	13	35	0	33705
Gander Down Summer House - -	24	11	0	
White Flood Clump -	25	31	0	25294
Stoke Hill Station - -	91	29	0	10900
Obelisk on Cranbury Common - -	63	0	0	
Farley Monument -	25	6	30	84105
Nettle Heath Clump -	112	35	0	38652
WickhamLodgeTelegraph	42	18	30	
Farley Monument -	40	52	30	98230
Nettle Heath Clump -	101	24	0	65577
Broadhalfpenny Windmill	37	43	30	
Farley Monument -	44	7	0	111405
Nettle Heath Clump -	103	32	0	79766
Chalkdon Telegraph -	32	21	0	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Farley Monument -	21	51	30	82827
WickhamLodgeTelegraph	76	48	0	31674
Old Winchester Hill -	81	20	30	
Old Winchester Hill -	19	28	0	31033
WickhamLodgeTelegraph	76	53	0	10621
Shirley Heath Windmill	83	39	0	
Old Winchester Hill -	87	25	0	28950
Wickham LodgeTelegraph	43	36	0	41937
Chalkdon Telegraph -	48	59	0	
Old Winchester Hill -	22	39	0	39995
Wickham LodgeTelegraph	108	46	30	16268
Southwick Park House -	48	34	30	
Old Winchester Hill	13	15	0	37978
WickhamLodgeTelegraph	121	18	0	10187
Fir Tree near Wickham	45	27	0	
Old Winchester Hill -	88	10	30	13971
WickhamLodgeTelegraph	24	5	30	34209
Beacon Hill near Exton	67	44	0	
Old Winchester Hill -	38	20	30	47263
WickhamLodgeTelegraph	100	25	30	29811
Portsdown Hill Telegraph	41	14	0	
Beacon Hill - -	43	20	30	34756
Old Winchester Hill -	115	21	30	26298
Froxfield Steeple -	21	18	0	
Beacon Hill - -	26	9	30	5734
Old Winchester Hill -	15	59	0	9179
Exton Steeple - -	137	51	30	
Beacon Hill - -	42	10	30	7898
Old Winchester Hill -	33	9	0	9697
Meon Stoke - -	104	40	30	
Beacon Hill - -	87	6	0	14976
Old Winchester Hill -	48	32	30	19958
Brockwood House -	44	21	30	
Beacon Hill - -	84	41	30	29052
Old Winchester Hill -	68	41	30	31051
Shirley Windmill -	26	37	0	
Beacon Hill - -	83	35	0	36807
Old Winchester Hill -	74	55	0	37882
Fir Tree, *Wickham Toll-gate* - -	21	30	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Beacon Hill - -	56	41	30	18678	Farley Monument -	15	48	30	111234
Old Winchester Hill -	76	37	0	16046	Broadhalfpenny Windmill	106	11	30	31555
Soberton Steeple -	46	41	30		Portsdown Windmill -	58	0	0	
Beacon Hill - -	52	58	0	46762	Farley Monument -	15	44		84102
Old Winchester Hill -	110	49	0	39936	Broadhalfpenny Windmill	52	51		28612
Thistlewait's House -	16	13			WickhamLodgeTelegraph	111	25		
White Flood Clump -	28	32		25849	Farley Monument -	19	3		111258
Beacon Hill - -	80	6		12534	Chalkdon Telegraph -	80	15		36846
Liquant Yew Tree -	71	31	30		Portsdown Windmill -	80	42		
Beacon Hill - -	82	55	0	13976	Beacon Hill - - -	28	44		55016
Liquant Yew Tree -	52	4	0	17584	Broadhalfpenny Windmill	123	1		31542
Old Winchester Hill -	45	1	0		Portsdown Windmill -	28	15		
Beacon Hill - -	26	6	30	16265	Beacon Hill - - -	26	2	30	56669
Liquant Yew Tree -	106	8	30	7451	Broadhalfpenny Windmill	128	36		31834
Hill near Waltham -	47	45	0		Portsdown Telegraph -	25	21	30	
Liquant Yew Tree -	21	44		12173	WickhamLodgeTelegraph	65	58		28611
Hill near Waltham -	130	33		5932	Portsdown Telegraph -	55	13		31815
Bishops Waltham Steeple	27	43			Broadhalfpenny Windmill	58	49		
Hill near Waltham -	97	5	0	6529	Chalkdon Telegraph -	37			8256
Bishops Waltham Steeple	43	53	0	9348	Broadhalfpenny Windmill	32	30		9251
Waltham House -	39	2	0		Catherington Windmill	110	29		
Beacon Hill - -	97	21	0	31055	Farley Monument	15	46		73493
Nettle Heath Clump -	28	1	0	65569	Broadhalfpenny Windmill	35	59	0	33988
Broadhalfpenny Windmill	54	38	0		Shirley Windmill -	128	15	0	
Old Winchester Hill -	24	1	30	18179	Broadhalfpenny Windmill	61	34		9253
Chalkdon Telegraph -	30	56	30	14394	Portsdown Telegraph -	16	32	0	28592
Broadhalfpenny Windmill	125	2	0		Catherington Windmill	101	54	0	
Wickham LodgeTelegraph	26	14	30	60209	Chalkdon Telegraph -	62	1		30831
Chalkdon Telegraph -	114	23	0	29229	Stanstead Monument -	61	32		30972
Stanstead Monument	39	22	30		Beacon Hill Telegraph	56	27		
WickhamLodgeTelegraph	56	47	30	29794	Portsdown Telegraph -	22	1		60900
Chalkdon Telegraph -	44	13	0	35746	Chalkdon Telegraph -	132	13		30826
Portsdown Hill Telegraph	78	59	30		Beacon Hill Telegraph -	25	46		
WickhamLodgeTelegraph	48	58	0	31201	Portsdown Telegraph -	66	53		27517
Chalkdon Telegraph	47	39	0	31846	Chalkdon Telegraph -	45	25		35533
Purbrook Park House	83	23	0		Hemsworth Chapel -	67	42		
WickhamLodgeTelegraph	69	2	0	27108	Chalkdon Telegraph -	134	37	0	28950
Chalkdon Telegraph -	70	35	30	36849	Beacon Hill Telegraph -	21	56	20	55157
Portsdown Windmill -	40	22	30		Old Winchester Hill -	23	26	40	

Names of Stations and intersected Objects.	Angles for Calculation.	
Beacon Hill Telegraph	41 59 10	42346
Old Winchester Hill -	50 6 2	36922
Froxfield Windmill -	87 54 30	
Farley Monument -	28 47	94247
Old Winchester Hill -	89 43	45380
Newton Windmill -	61 30 0	
Chalkdon Telegraph -	86 50 0	35532
Beacon Hill Telegraph	50 52 0	45736
Hemsworth Chapel -	42 18 0	
Beacon Hill Telegraph	44 7 40	63760
Old Winchester Hill -	78 3 20	45376
Newton Windmill -	57 49	
Butser Hill - -	63 9 4	156119
Portsdown Hill Station	97 16 28	140419
Dean Hill - -	19 34 28	
Dean Hill - - -	15 50 12	168055
Butser Hill - -	96 54 20	46197
Havant Steeple -	67 15 28	
Dean Hill - -	13 16 6	178357
Butser Hill - -	13 7 0	44509
Bourne Steeple -	53 36 54	
Beacon Hill Telegraph	31 30 0	75002
Froxfield Windmill -	18 52 0	44748
Binstead Spire - -	29 38 0	
Beacon Hill Telegraph	40 28 0	62614
Froxfield Windmill -	97 25 0	40980
Woolmer Forest Clump	42 7 0	
Newton Windmill -	92 27 30	36890
Beacon Hill Telegraph	29 25 30	75019
Binstead Spire	58 7 0	
Beacon Hill Telegraph	7 0 0	67453
Binstead Spire -	45 34 0	11512
East Worldham Steeple	27 26 0	
Beacon Hill Telegraph	8 54 0	87480
Binstead Spire -	130 9	17706
Large Beech Tree, *Froyle*	40 57	
Beacon Hill Telegraph	15 54	67471
Woolmer Forest Clump	97 1	18624
East Worldham Steeple	67 5	

Names of Stations and intersected Objects	Angles for Calculation.	Distances in Feet.
Beacon Hill Telegraph -	4 41	59011
Woolmer Forest Clump	51 44	6136
Headley Spire -	123 35	
Beacon Hill Telegraph	13 51 0	49112
Woolmer Forest Clump	38 13 0	19004
Bramshot Spire -	127 56	
Beacon Hill Telegraph	11 16 3	27541
Woolmer Forest Clump	8 36	36010
Clump of Trees near the Flying Bull Inn.	160 7 3	
Beacon Hill Telegraph -	29 46	49115
East Worldham Steeple	44 29	34799
Bramshot Spire -	105 45	
Beacon Hill Telegraph	20 34	59019
East Worldham Steeple	59 31	24059
Headley Spire - -	99 55	
East Worldham Steeple	70 0	24127
Woolmer Forest Clump	65 25	24932
Bentley Steeple -	44 35	
East Worldham Steeple	7 12	11976
Woolmer Forest Clump	12 33	6907
Cricket Inn, *Kingsley*	60 15	
East Worldham Steeple	29 7 0	37346
Woolmer Forest Clump	27 37 0	22941
Large House near Bramshot	23 16	
East Worldham Steeple	60 51	20209
Binstead Spire -	84 36	17728
Large Beech Tree, *Froyle*	34 33 0	
East Worldham Steeple	57 29	19882
Binstead Spire -	87 11	16785
Large Ash Tree, *Froyle*	35 30	
East Worldham Steeple	88 2 0	6350
Binstead Spire - -	29 20 0	12955
Station South of Alton	62 38 0	
East Worldham Steeple	102 49	11988
Binstead Spire -	39 31	18370
Alton Spire - -	37 40 0	
Binstead Spire - -	2 35	16784
Large Beech Tree -	38 30	1215
Large Ash Tree -	138 55	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Large Beech Tree -	18	32	0	35706
Beacon Hill Telegraph	11	57	0	54813
Selbourne Steeple -	149	31	0	
Station South of Alton	147	36	30	6060
Binstead Spire - -	10	11	0	18362
Alton Spire - -	22	12	30	
Station South of Alton	74	7	0	14759
Binstead Spire -	57	52	0	16763
Large Ash Tree - -	48	1	0	
Gander Down Sum. House	124	28	40	23020
Farley Monument -	17	49	40	61982
Alresford Steeple -	37	41	40	
Gander Down Sum. House	51	20	0	23311
Alresford Steeple -	65	5	0	20069
Yew Tree Clump, *Hitchen*	63	35	0	
Gander Down Sum. House	5	7	0	25553
Alresford Steeple -	136	51	0	3332
Old Alresford Steeple	38	2	0	
Gander Down Sum. House	17	25	0	32619
Alresford Steeple -	129	43	0	12697
Abbotsdown Barrow -	32	52	0	
Gander Down Sum. House	30	38	0	23434
Alsesford Steeple -	76	33	0	12277
Stoke Down, *Large Barrow* - - -	72	49	0	
Gander Down Sum. House	46	12	0	23325
Old Alresford Steeple -	60	48	0	19285
Yew Tree Clump -	73	0	0	
Alresford Steeple -	53	9	0	12679
Stoke Down - -	65	16	0	11171
Abbotsdown Barrow -	61	35	0	
Alresford Steeple -	101	38	0	9675
Abbotsdown Barrow.	32	55	0	17438
Ovington Steeple -	45	27	0	
Alresford Steeple -	[illegible]	42	0	6152
Abbotsdown Barrow	19	2	0	16547
Bishop's Sutton Steeple	[illegible]	16	0	
Beacon Hill - -	62	13	0	81711
Highclere Beacon -	50	1	30	94336
Farley Monument -	67	45	30	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Beacon Hill - -	76	55	0	19096
Highclere Beacon -	11	9	0	96187
Mallets Grove, Building	91	56	0	
Beacon Hill - -	18	44	0	56816
Highclere Beacon -	22	7	20	48455
Andover Steeple -	139	8	40	
Beacon Hill - -	19	37	0	17663
Highclere Beacon -	4	8	0	82270
Thruxton Hill, *Small Tree*	156	15	0	
Beacon Hill - -	50	33	0	45256
Highclere Beacon -	26	33	0	78183
Danesbury Camp -	102	54	0	
Beacon Hill - -	26	24	20	134300
Highclere Beacon -	113	2	40	60304
Windmill Clump, near Dummer - -	42	33	0	
Beacon Hill - -	84	6	0	75782
Highclere Beacon -	39	40	0	118092
Milk Hill, *Thorn* -	56	14	0	
Beacon Hill - -	2	20	0	103990
Highclere Beacon -	140	54	0	6713
Buryclere, *Small Clump*	36	46	0	
Beacon Hill - -	29	5	0	31734
Highclere Beacon -	12	15	50	72618
Centre Clump on Windmill Hill near Ludgershall - -	138	39	10	
Beacon Hill - -	26	48	0	108764
Highclere Beacon - -	88	7	0	49066
Popham Beacon -	65	5	0	
Beacon Hill - -	23	56	0	50821
Highclere Beacon -	21	32	10	56163
Chute Down Ash Tree	134	31	50	
Beacon Hill - -	24	56	0	57596
Highclere Beacon -	27	35	20	52427
Tidcombe Down Ash Tree	127	28	40	
Highclere Beacon	21	20	13	212343
Dean Hill - -	133	15	34	106062
Wingreen - -	25	24	13	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Highclere Beacon -	84	34	50	30295	Beacon Hill - -	74	27	0	50819
Dean Hill - -	13	51	40	125890	Danesbury Camp -	57	8		58284
Walbury Intrenchment	81	33	30		Ash Tree, *Chute Common*	48	25	0	
Highclere Beacon -	107	39	0	30297	Beacon Hill	57	18	0	17651
Farley Monument -	15	35	0	107472	Mallet's Grove	57	14	0	17004
Walbury Intrenchment	56	46	0		Thruxton Hill, *Small Tree*	65	28		
Highclere Beacon -	68	21	0	32512	Beacon Hill - -	105	51	0	24259
Walbury Intrenchment	58	48	0	35328	Mallet's Grove -	42	13	0	34730
Newbury Steeple -	52	51	0		Tidworth Steeple -	31	56	0	
Highclere Beacon -	62	41	0	39121	Danesbury Camp -	30	56	0	29580
Walbury Intrenchment	70	27	0	36885	Andover Steeple -	72	45	0	15921
Donnington Castle -	46	52	0		Weyhill Steeple -	76	19	0	
Highclere Beacon -	54	15	0	32377	Beacon Hill - -	114	29		36093
Walbury Intrenchment	66	35	0	28635	Mallet's Grove -	43	58		47314
Uphurstborne Windmill	59	10	0		Pollard, near Druid's Head	21	33		
Highclere Beacon -	55	47	0	9257	Beacon Hill - -	103	41		
Walbury Intrenchment	16	58	0	26231	Mallet's Grove -	37	34		29643
Lord Carnarvon's Temple	107	15	0		Tidworth Summer House	38	45		
Highclere Beacon -	51	24	0	34841	Beacon Hill - -	91	23		58410
Walbury Intrenchment	72	33	0	28543	Mallett's Grove -	70	39		61869
Lord Craven's House -	56	3	0		Conholt Lodge -	17	58		
Highclere Beacon -	10	18	0	30925	Beacon Hill - -	60	19	0	12387
Walbury Intrenchment	91	21	0	5531	Mallet's Grove -	39	42	0	16847
West Woodhay Steeple	78	21	0		Parkhouse Inn -	79	59	0	
Beacon Hill - -	31	49	0	56797	Highclere Beacon -	5	40	30	39126
Danesbury Camp -	95	44	0	30094	Newbury Steeple -	148	56	0	7497
Andover Steeple -	52	27	0		Donnington Castle -	25	23	30	
Beacon Hill - -	24	41	0	49400	Walbury Intrenchment	4	47	0	23316
Danesbury Camp -	89	12	0	20669	Newbury Steeple -	9	8	0	12248
Bury Hill Clump -	66	7	0		Enborne Steeple -	166	5	0	
Beacon Hill - -	79	39	0	31736	Beacon Hill - -	91	21	0	31717
Danesbury Camp -	38	17	0	50391	Farley Monument -	21	2		88345
Windmill Hill near Ludgershall - -	62	4			Windmill Hill, near Ludgershall -	67	37	0	
Beacon Hill - -	12	48		57806	Beacon Hill -	107	58	0	26665
Danesbury Camp -	130	97		16956	Farley Monument -	15	45	0	93445
Oak Tree, *Fullerton Farm*	36	15			Chidbury Station -	56	17	0	
Beacon Hill - -	8	27		38245	Highclere Beacon -	38	51		37391
Danesbury Camp -	37	7		9313	Danesbury Camp -	25	33		54381
Barrow near five mile stone	134	26			Tangley Clump	115	36	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Highclere Beacon -	114	21	0	6707
Danesbury Camp -	4	19	0	81178
Burghclere, *Small Clump*	61	20	0	
Highclere Beacon -	61	34		49080
Danesbury Camp -	38	13		69766
Popham Beacon -	80	13		
Highclere Beacon -	84	7	0	14567
Danesbury Camp -	10	42	0	78047
Hanes Warren Clump	85	11	0	
Highclere Beacon -	23	52	30	30734
Danesbury Camp -	13	57	0	51601
Lord Portsmouth's House	142	10	30	
Highclere Beacon -	18	35	30	36668
Danesbury Camp -	15	4	0	44974
Arch Lodge -	146	20	30	
Beacon Hill - -	16	36		26656
Windmill Hill -	50	56	0	9808
Chidbury Hill Station -	112	28	0	
Beacon Hill - -	48	19		42558
Windmill Hill - -	83	35		31833
Uphaven Down Clump	48	6		
Beacon Hill - -	32	5		36110
Windmill Hill - -	86	37		19213
Everley Windmill -	61	18	0	
Windmill Hill -	27	25	0	22454
Danesbury Camp -	18	45	0	32166
Direction Post on the Devizes Road - -	133	50	0	
Windmill Hill -	18	18	0	53906
Danesbury Camp -	92	40	0	16944
Oak Tree, *Fullerton Farm*	69			
Windmill Hill -	10	49	0	16588
Danesbury Camp -	5	13	0	34239
Kimpton Windmill -	163	58	0	
Windmill Hill -		5	0	20048
Danesbury Camp -		41	0	54260
Chute Steeple -	68	14	0	
Windmill Hill	64	34	0	20727
Danesbury Camp	24	17	0	45516
Chute Lodge -	91	9	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Windmill Hill -	59	32	0	25449
Danesbury Camp -	30	20	0	43433
Barrow, North of Beacon Hill - - -	90	8		
Beacon Hill - -	34	6		58370
Thruxton Hill - -	133	9		44854
Conholt Lodge -	12	45		
Chidbury Hill - -	117	19	0	12614
Windmill Hill - -	35	42	0	19206
Everley Windmill -	26	59		
Chidbury Hill -	61	34		16463
Windmill Hill - -	82	16		14615
Collingbourne Windmill	36	10	0	
Uphaven Down Clump	146	56	0	33894
Windmill Hill -	17	4	0	63013
Milk Hill, *Thorn* -	16	0	0	
Windmill Hill - -	6	48	0	69115
Fullerton Farm, *Oak*	150	56		16844
Barrow, near the six mile stone - -	22	16	0	
Windmill Hill -	12	49	0	47884
Fullerton Farm, *Oak*	55	49	0	12841
Barrow, South of Andover	111	22	0	
Danesbury Camp	19	56		31768
Fullerton Farm, *Oak*	140	1		16855
Barrow near the six mile stone - - -	20			
Danesbury Camp - -	23	28		26491
Fullerton Farm, *Oak* -	24	52		12857
Barrow, South of Andover	31	40		
Danesbury Camp -	74	3		29335
Chute Common, *Ash*	29	19	0	57606
Mallet's Grove -	76	38		
Danesbury Camp -	07	55		39702
Chute Common, *Ash*	28	11		79986
Crawley Clump -	43	54		
Danesbury Camp -	6	29	0	58261
Chute Common, *Ash* -	86	31	0	6591
Chute Common Barrow	87	0	0	

Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Direction Post -	39 17 0	19750
Danesbury Camp -	36 32 0	21006
Grateley Spire - -	104 11 0	
Direction Post -	46 50	26160
Windmill Hill - -	76 34	19617
Chute Common, *Asb* -	56 36	
Direction Post -	160 58	10400
Chute Common, *Asb* -	5 23	36151
Amport Spire - -	13 39	
Direction Post -	97 50	8083
Danesbury Camp -	13 32	34217
Kimpton Windmill -	68 38	
Chute Common, *Asb*	134 50	6615
Beacon Hill - -	4 50	55682
Chute Common, Barrow	40 20 0	
Fullerton Farm, *Oak* -	13 32	8251
Barrow South of Andover	21 48	5199
Clatford Steeple -	144 40 0	
Chute Common, *Asb* -	53 11	73376
Beacon Hill - -	83 21	59139
Red Horn, Clump -	43 28	
Chute Common, *Asb* -	16 37	11004
Chute Common, Barrow	141 24	5044
Heydon Hill Clump -	1 59	
Beacon Hill - -	5 51 0	57587
Chute Common Barrow	105 18 0	6085
Tidcombe Down, *Asb*	68 51 0	
Tidcombe Down, *Asb*	49 42 0	76839
Beacon Hill - -	82 20 0	59131
Red Horn Clump -	47 58 0	
Beacon Hill - -	65 0	75790
Chute Common Barrow	71 0 0	72627
Milk Hill, *Thorn* -	44 0 0	
Beacon Hill - -	00 10 0	50782
Milk Hill, *Thorn* -	41 5 0	67034
Chute Common, *Asb*	78 45 0	
Beacon Hill - -	23 11	59143
Milk Hill, *Thorn* -	47 2	31639
Red Horn Clump -	09 2	

Names of Stations and intersected Objects	Angles for Calculation.	Distances. in Feet.
Beacon Hill - -	55 1 0	31739
Milk Hill, *Thorn* -	24 18 0	63191
Windmill Hill -	100 41 0	
Beacon Hill - -	47 34 0	32882
Milk Hill, *Thorn* -	24 21 30	58842
Neath Barrow - -	108 4 30	
Beacon Hill - -	78 13	31730
Red Horn Clump -	30 32	61139
Windmill Hill -	71 15	
Beacon Hill - -	22 40 0	23490
Red Horn Clump -	13 35 0	38544
Knighton, Long Barrow	143 45 0	
Beacon Hill - -	38 48	63979
Red Horn Clump -	76 58	41149
Chittern Windmill -	64 14 0	
Beacon Hill - -	19 22 0	81169
Red Horn Clump -	122 56 0	32071
Ann's Hill Building	37 42	
Beacon Hill - -	24 24 0	32869
Red Horn Clump -	25 56 0	32211
Neath Barrow -	130 40 0	
Windmill Hill - -	69 46	45831
Red Horn Clump -	43 31 0	62453
Lord Elbury's Monument	66 43 0	
Windmill Hill -	76 7 0	40580
Red Horn Clump -	37 28 0	64762
Summer House -	66 25 0	
Milk Hill, *Thorn* -	67 9	21976
Red Horn Clump -	41 14 9	30724
Bishop's Canning Spire	71 37 0	
Milk Hill, *Thorn* -	10 17 0	42711
Red Horn Clump -	143 43 0	12884
Ellbarrow - -	26 0 0	
Milk Hill, *Thorn* -	79 24 0	23535
Red Horn Clump -	40 16 0	35790
Pewsey Steeple -	60 20 0	
Milk Hill, *Thorn* -	95 48	26121
Red Horn Clump -	37 10	43016
Pewsey Windmill -	47 2 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Milk Hill, *Thorn* -	90 16 0	38007
Red Horn Clump -	50 4 0	49566
Easton Clump -	39 40 0	
Milk Hill, *Thorn* -	59 24	11695
Red Horn Clump -	21 24	27588
Wilcot Hill -	99 12 0	
Milk Hill, *Thorn* -	52 0 0	33384
Red Horn Clump -	67 9 0	28548
Devizes Spire -	60 51	
Tidcombe Down -	52 59 0	34428
Red Horn Clump -	26 6 0	62484
Lord Elbury's Monument	100 55 0	
Milk Hill, *Thorn* -	13 13	36570
Devizes Spire - -	104 51	8650
Pottern Hill, *Tree* -	61 56 0	
Milk Hill, *Thorn* -	22 7	42938
Ellbarrow - -	79 43	16430
Gibbet Knoll - -	78 10	
Ellbarrow - -	25 48	17437
Gibbet Knoll -	84 30	7624
Hurshfont Hill -	69 42	
Milk Hill, *Thorn* -	20 0	23510
Wilcot Hill -	142 17	1,144
Pewsey Steeple -	17 43	
Milk Hill, *Thorn* -	36 24 0	26099
Wilcot Hill - -	121 1 0	18071
Pewsey Windmill - -	22 35 0	
Milk Hill, *Thorn* -	18 42 0	27944
Wilcot Hill -	148 46 0	17278
Rushall Steeple - -	12 32 0	
Milk Hill, *Thorn* -	90 7 0	13971
Wilcot Hill - -	50 0 0	18238
Ashington Steeple -	39 53 0	
Highclere Beacon -	92 23 0	22483
Donnington Castle -	29 17 0	45926
Freemantle Park, *Fir* -	58 20 0	
Highclere Beacon -	26 59 0	36639
Freemantle Park -	[illegible] 27 0	1[illegible]
Cot House on Baughurst Common - -	31 34 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Highclere Beacon -	6 21 0	38315
Freemantle Park -	34 7 0	19430
Burghclere Steeple -	139 32 0	
Highclere Beacon -	66 22	27397
Freemantle Park -	65 23	27608
Greenham Direction Post	48 15 0	
Highclere Beacon -	11 38 20	31904
Freemantle Park -	141 48 0	10144
Woolverton Steeple -	26 33 40	
Highclere Beacon -	15 55 40	41752
Freemantle Park -	147 2 0	21056
Baughurst Steeple -	17 2 20	
Highclere Beacon -	27 29	22034
Greenham Direction Post	52 20	12846
Ilchingswell Windmill	100 11 0	
Freemantle Park -	81 39	21045
Greenham Direction Post	40 18	32192
Baughurst Steeple -	58 3 0	
Highclere Beacon	63 21 0	46164
Fangley Clump -	67 59 0	44506
Long Parish middle Clump	48 40	
Highclere Beacon	18 34	5451
Fangley Clump -	3 5	32279
Sidown Barrow -	158 21 0	
Milk Hill, *Thorn* -	71 35 50	43643
Tidcomb Down, *Ash*	37 31 10	67994
Up Ogbourne Barrow	70 53	
Up Ogbourne Barrow	29 33 0	22295
Tidcombe Down, *Ash*	12 45 0	49826
Station S. of Marlborough	137 42 0	
Milk Hill, *Thorn* -	2 54 10	67707
Chute Common Barrow	34 18 0	6085
Tidcombe Down, *Ash*	142 47 50	
Station S. of Marlborough	48 28 0	2461
Up Ogbourne Barrow	66 14 0	10372
Totterdown Clump -	65 18 0	
Station S. of Marlborough	26 8	4178
Totterdown Clump -	5 37	18801
St. Peter's Steeple, Marlborough - -	148 15	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet
	° ′ ″	
Highclere Beacon	53 11 40	34735
Uphursbourne Windmill	67 25 0	30121
Gibbet on Ham Hill	59 23 20	
Highclere Beacon	48 43 0	38855
Uphursbourne Windmill	77 0 0	29966
Buttermire Hill	54 17 0	
Uphursbourne Windmill	18 13 0	29948
Walbury Intrenchment	88 51 0	9364
Buttermire Hill	72 56 0	
Walbury Intrenchment	91 59 10	17437
Buttermire Hill	60 13 50	20076
Kintbury Steeple	27 47 0	
Highclere Beacon	14 52 0	58394
Gibbet on Ham Hill	145 23 0	26373
Station near Hungerford	19 45 0	
Station near Hungerford	157 30 0	3040
Gibbet on Ham Hill	2 17 0	29205
Hungerford Steeple	20 13 0	
Tidcombe Down, *Ash*	77 45 0	23529
Up Ogbourne Barrow	20 3 0	67067
Buttermire Hill	82 12 0	
Up Ogbourne Barrow	22 56 0	62443
Buttermire Hill	68 33 0	26142
Tidcombe Down, *Thorn*	88 31 0	
Tidcombe Down, *Ash*	43 17 50	23512
Highclere Beacon	24 32 25	38823
Buttermire Hill	112 9 45	
Tidcombe Down, *Ash*	86 34 0	23522
Lord Elbury's Monument	35 25 0	40516
Buttermire Hill	58 1 0	
Buttermire Hill	13 39 0	26139
Tidcombe Down, *Ash*	106 57 0	6449
Tidcombe Down, *Thorn*	59 24 0	
Tidcombe Down, *Thorn*	58 55 0	55807
Buttermire Hill	93 12 0	47868
Albury Steeple	27 53 0	
Tidcombe Down, *Thorn*	3 28 20	31064
Buttermire Hill	158 52 0	5218
Gibbet on Ham Hill	17 39 40	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Tidcombe Down, *Thorn*	65 33 20	21187
Gibbet on Ham Hill	40 51 40	29482
Great Bedwin Steeple	73 35 0	
Great Bedwin Steeple	141 46 0	7760
Tidcombe Down, *Thorn*	9 59 0	27702
Little Bedwin Spire	28 15 0	
Buttermire Hill	87 9 0	5225
Uphursbourne Windmill	9 58 0	30152
Gibbet on Ham Hill	82 53 0	
Highclere Beacon	31 13 0	69288
Popham Beacon	105 50 0	37326
Crawley Clump	42 57 0	
Highclere Beacon	50 0 10	27094
Popham Beacon	33 15 0	37855
Hannington Steeple	96 44 50	
Highclere Beacon	13 53 0	33124
Popham Beacon	25 10 0	18690
Knoll Hill, *South Ash*	140 57 0	
Highclere Beacon	21 37 30	56715
Popham Beacon	99 54 30	21218
Cranborne Clump	58 28 0	
Highclere Beacon	45 3 0	19206
Popham Beacon	20 57 0	38016
Egbury Camp	114 0 0	
Highclere Beacon	9 37 0	56692
Crawley Clump	35 16 0	16403
Cranborne Clump	135 7 0	
Highclere Beacon	5 16 0	24845
Knoll Hill, *Ash*	15 13 0	8688
Direction Post, King's-sclose Road	159 31 0	
Popham Beacon	37 34 0	16607
Cranborne Clump	51 30 0	12938
Stoke Charity Steeple	90 56 0	
Popham Beacon	58 24 0	18672
Hannington Steeple	29 32 0	32263
Knoll Hill, *South Ash*	92 4 0	
Popham Beacon	140 37 0	13555
Hannington Steeple	17 45 0	28944
Laverstock Barrow	121 38 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Crawley Clump	20	34	0	24764
Popham Beacon	31	36	0	16602
Stoke Charity Steeple	127	50	6	
Windmill Hill	33	13	40	10303
Beacon Hill	2	34	20	125808
Biggs Farm, *Ash Tree*	144	12	0	
Windmill Hill	25	59	0	4818
Biggs Farm, *Ash Tree*	19	28	0	6334
Dummer Steeple	134	33	0	
Windmill Hill	29	21	0	23676
Biggs Farm, *Ash Tree*	131	41	9	15538
South Litchfield Barn	18	58	0	
Clay Hill Barrow	9	33	0	66970
Beacon Hill	12	15	0	52366
Yarnsbury Castle	158	12	0	
Beacon Hill	59	48	0	52363
Salisbury Spire	65	52	0	49590
Yarnsbury Castle	54	20	0	
Beacon Hill	13	44	0	64022
Yarnsbury Castle	122	53	0	18098
Chittern Windmill	43	23	0	
Beacon Hill	16	12	0	42814
Yarnsbury Castle	46	43	0	16408
Maddington Windmill	117	5	0	
Chittern Windmill	106	33	0	16205
Yarnsbury Castle	34	22	0	27518
Upton Barrow	39	5	0	
Clay Hill Barrow	56	41	0	52703
Beacon Hill	26	31	0	98645
Fonthill Abbey	96	48	6	
Clay Hill Barrow	39	7	0	107542
Beacon Hill	63	32	0	75792
Milk Hill, *Thorn*	77	21	0	
Beacon Hill	10	35	10	117240
Bradley Knoll	47	4	50	29412
Clay Hill Barrow	122	20	10	
Beacon Hill	99	1	36	58085
Bradley Knoll	21	40	7	155360
Dean Hill	59	18	17	

Names of Stations and intersected objects.	Angles for Calculation °	′	″	Distances in Feet.
Beacon Hill	23	37	0	101366
Bradley Knoll	43	46	0	58707
Whitehorse Hill New Station	112	37	0	
Bradley Knoll	40	46	0	33762
Clay Hill Barrow	80	7	0	22378
Frome Spire	59	7	0	
Bradley Knoll	41	32	0	31514
Clay Hill Barrow	74	26	0	21691
Frome Asylum	64	2	0	
Bradley Knoll	56	39	0	26555
Clay Hill Barrow	56	16	0	26674
Lord Cork's House	67	5	0	
Bradley Knoll	63	25	0	36844
Clay Hill Barrow	68	35	0	35393
Whatley Spire	48	0	0	
Bradley Knoll	79	59	0	44163
Clay Hill Barrow	63	27	0	48616
Leigh Steeple	36	34	0	
Bradley Knoll	48	41	0	45853
Clay Hill Barrow	91	26	0	34450
Buckland Steeple	39	53	0	
Bradley Knoll	45	59	0	64748
Clay Hill Barrow	108	30	0	49099
Station north of Codford	25	31	0	
Bradley Knoll	29	26	0	46167
Clay Hill Barrow	115	27	0	25125
Beckington Steeple	35	7	0	
Bradley Knoll	34	6	0	93943
Clay Hill Barrow	132	34	10	71515
Farley Down New Station	13	19	50	
Mendip	33	9	20	23573
Bradley Knoll	16	58	40	44152
Leigh Steeple	129	52	0	
Mendip	36	15	0	38130
Bradley Knoll	35	50	30	33505
Crich Hill	107	54	30	
Bradley Knoll	58	50	0	36443
Leigh Steeple	50	57	0	40154
Berkeley Lodge	70	13	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Bradley Knoll - -	16	35		36914
Leigh Steeple -	50	12		13713
Whatley Spire - -	13	13		
Mendip - -	96	34	0	9014
Leigh Steeple -	20	0		26183
Benager Steeple -	63	26		
Mendip - -	41	31		7690
Leigh Steeple - -	15	58		18530
Ashwick Steeple -	122	31		
Clay Hill Barrow -	4	44		39479
Station near Codford -	18	28		10285
Upton Barrow -	56	48		
Clay Hill Barrow -	4	6	0	44815
Station near Codford -	36	4	0	5443
Codford St. Peter Steeple	39	50	0	
Clay Hill Barrow -	25	0	30	00429
Farley Down New Station	114	40	0	46719
Rushden Huish Steeple	40	19	30	
Leigh Steeple -	14	18		40150
Clay Hill Barrow -	45	37		13876
Berkeley Lodge -	120	5	0	
Bradley Knoll -	10	8		97020
Farley Down New Station	95	14		17141
Lansdown Clump	74	38		
Farley Down New Station	84	16		26731
Lansdown Clump -	61	27		30279
Hinton Steeple -	34	17		
Farley Down New Station	131	39		8369
Lansdown Clump - -	15	24		23549
Kingsdown Clump -	32	57		
Kingsdown Clump -	20	30		21833
Farley Down New Station	147	40		14293
St. Michael's Spire, Bath -	11	50		
White Horse Hill New Sta.	105	17		56835
Bradley Knoll -	36	39		91846
Farley Clump - -	38	4		
White Horse Hill New Sta.	107	36		25551
Bradley Knoll -	20	8		70756
Trowbridge Spire	52	16		

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Clay Hill Barrow -	25	17	0	45819
Milk Hill, *Thorn* -	16	29	20	68947
Steeple Ashton -	138	13	40	
Farley Clump -	24	32	0	69210
White Horse Hill New Sta.	102	2	0	29383
Clay Hill Barrow -	53	26	0	
Farley Clump -	44	11		34897
White Horse Hill New Sta.	37	24		40043
Melksham Steeple -	98	25		
Clay Hill Barrow -	34	43		43448
White Horse Hill New Sta.	104	21		25541
Trowbridge Spire -	40	56	0	
Clay Hill Barrow -	13	55		24266
White Horse Hill New Sta.	45	2		8250
Westbury Steeple -	21	3		
Clay Hill Barrow -	46	22		53423
White Horse Hill New Sta.	00	57		39383
Bradford Windmill -	32	41	0	
Clay Hill Barrow -	61	56		29537
White Horse Hill New Sta.	59	17		30317
Road Steeple - -	58	47		
Clay Hill Barrow -	12	9	0	20805
White Horse Hill New Sta.	25	50	0	10047
Windmill near Westbury	42	1		
Farley Clump - -	68	43		34878
Clay Hill Barrow -	29	53		65228
Melksham Steeple -	81	24		
Road Steeple - -	132	7		7296
Clay Hill Barrow -	8	56	0	34853
Winchfield Steeple -	38	57	0	
Clay Hill Barrow -	49	49	0	21505
Windmill near Westbury	67	8	0	17831
Standerwick House -	63	3	0	
Steeple Ashton -	26	16	0	17321
Milk Hill, *Thorn* -	8	10	0	53962
Seend Steeple - -	145	34	0	
Clay Hill Barrow -	44	59		62628
Farley Down New Station	58	25		51969
Seend Steeple -	76	36	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Farley Down New Station	48	4	0	29296
Seend Steeple - -	33	56	0	39041
Corsham Spire - -	98	0	0	
Clay Hill Barrow -	43	43	0	48443
Melksham Steeple -	47	56	0	45098
Hinton Steeple -	88	21	0	
Hinton Steeple -	59	55	0	42785
Clay Hill Barrow -	53	54	0	45820
Steeple Ashton -	66	11	0	
Clay Hill Barrow -	39	48	0	13514
Station near Codford -	12	34	0	39647
Barrow on Limekiln Hill	127	46	0	
Clay Hill Barrow -	33	42	0	14265
Limekiln Hill Barrow -	78	15	0	8084
Bishopstrow Spire -	68	3	0	
Beacon Hill - -	15	57	0	98670
Bradley Knoll -	33	52	0	48656
Fonthill Abbey -	130	11	0	
Bradley Knoll - -	32	36	0	19674
Fonthill Abbey -	18	17	0	33787
Kingston Deverill Hill -	129	7	0	
Bradley Knoll - -	11	18	0	19725
Kingston Deverill Hill -	85	6	0	38792
Kingston Deverill Spire -	83	36	0	
Compton Clump -	143	52	20	14111
Ridge Hill - -	11	32	0	41611
Fonthill Abbey -	24	35	40	
Ridge Hill - -	56	4	0	5679
Fonthill Abbey - -	23	18	0	11912
Thirteen mile stone -	100	38	0	
Fonthill Abbey -	16	6	0	54322
Compton Clump -	125	5	0	18409
Barn north of Wilton -	38	49	0	
Barn near Wilton -	21	46	0	12973
Compton Clump -	37	6	0	7975
Barrow South of Barford	121	8	0	
Barn near Wilton -	63	39	30	7302
Barrow near Barford -	33	55	0	11728
Wilton Steeple -	82	25	30	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Compton Clump -	52	38	0	9309
Barrow near Barford -	72	33	0	7755
Barford St. Martin Steeple	54	49	0	
Compton Clump -	32	43	0	8317
Barn near Wilton -	21	30	0	12265
Three Fir Trees south of Barford - -	125	47	0	
Compton Clump -	127	25	0	14112
Three Fir Trees -	33	34	0	20272
Baverstock Steeple -	19	1	0	
Mendip - - - -	60	12	20	85802
Dundry - -	70	21	20	79062
Farley Down New Station	49	25	20	
Farley Down New Station	13	20	0	41069
Dundry - -	13	37	0	40230
Stantonbury Hill -	153	3	0	
Stantonbury Hill -	59	33	0	15781
Dundry - -	22	53	0	34986
Pollard on Beacon Hill	97	34	0	
Dundry - -	13	49	0	45377
Stantonbury Hill -	109	29	0	11485
Priest Barrow - -	56	42	0	
Stantonbury Hill -	66	21	0	9346
Beacon Hill, *Pollard* -	35	26	0	14767
Compton Dando Steeple	78	13	0	
Stantonbury Hill -	21	34	0	4649
Beacon Hill, *Pollard* -	8	29	0	11584
Marksbury Steeple -	149	57	0	
Stantonbury Hill -	115	52	0	18129
Beacon Hill, *Pollard* -	34	33	0	28763
Keynsham Steeple -	29	35	0	
Stantonbury Hill -	28	0	0	20199
Beacon Hill, *Pollard* -	102	13	0	9702
Stantonwick Glass House	49	47	0	
Stantonbury Hill -	158	43	0	10407
Beacon Hill, *Pollard* -	81	26	0	25277
Newton Steeple -	12	51	0	
Stantonbury Hill -	11	33	0	25276
Keynsham Steeple -	142	40	0	8345
Dr. Foxe's House	25	47	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Dundry	49 27	33738	White Horse Hill	13 12 0	31519
Beacon Hill Pollard	63 1	28767	Roundaway Castle	152 29 0	15578
Keynsham Steeple	67 32		Beenham Spire		

ART. VIII. *Secondary Triangles for the Survey of the County of Sussex. Plate* VIII.

The Distances serving as Base Lines for the following Triangles are

Chanctonbury Ring to	Highdown Windmill	29442
	Lord Egremont's Summer House	70219
Leith Hill to	Crowborough Beacon	128332
	Horsham Spire	43558

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Highdown Windmill	55 24 0	40715	Egremont's Summer House	47 10 0	21750
Chanctonbury Ring	79 19 0	34105	Hascombe Hill Telegraph	22 14	42153
Shoreham Steeple	45 17 0		Black Down Telegraph	110 36	
Highdown Windmill	63 53	12676	Egremont's Summer House	75 51 0	62204
Chanctonbury Ring	25 30	26438	Hascombe Hill Telegraph	57 23 0	71610
West Tarring Spire	90 37		Shipley Spire	46 46 0	
High Down Windmill	36 6	27140	Egremont's Summer House	74 25	71780
Chanctonbury Ring	64 50	17668	Hascombe Hill Telegraph	63 28 0	77281
Steep Down	79 4		Grinstead Park House	42 7 0	
Highdown Windmill	62 52	29390	Egremont's Summer House	18 39 0	44179
Chanctonbury Ring	58 29	30681	Hascombe Hill Telegraph	49 57 0	18502
Lancing, Great House	58 39		Alfold Spire	111 34 0	
Highdown Windmill	54 57	29640	Egremont's Summer House	59 57	44018
Shoreham Steeple	45 41	33914	Hascombe Hill Telegraph	50 11	49605
Chanctonbury Fire Beacon	79 22		Billinghurst Spire	69 52	
Highdown Windmill	45 43	8194	Egremont's Summer House	43 44 0	22961
Shoreham Steeple	9 31	35482	Hascombe Hill Telegraph	23 6	40458
Goring Spire	124 46		Kirford Steeple	113 10 0	
Shoreham Steeple	19 6	20638	Hascombe Hill Telegraph	72 19 0	18520
Chanctonbury Fire Beacon	25 14	15879	Blackdown Telegraph	25 47	40566
Bramber Castle	135 40		Alfold Spire	81 54	
Egremont's Summer House	0 11	70420	Hascombe Hill Telegraph	102 38	31156
Chanctonbury Ring	134 41	301	Black Down Telegraph	31 50	57636
Chanctonbury Fire Beacon	48 8		Rudgwick Steeple	45 32	
Egremont's Summer House	102 5	53806	Hascombe Hill Telegraph	103 19 0	60675
Chanctonbury Fire Beacon	32 2	97703	Black Down Telegraph	46 27	81465
Hascombe Hill Telegraph	44 38		Horsham Spire	30 14	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Rooks Hill	88 51 16	73754	Egremont's Summer House	79 25 0	50893
Chichester Spire	74 55	76370	Black Down Telegraph	76 2 0	51560
High Down Windmill	16 13 36		Beacon Hill Telegraph	24 30 0	
Chichester Spire	9 59	52205	Egremont's Summer House	49 1 0	9905
Highdown Windmill	19 56	26546	Black Down Telegraph	26 7 0	16986
Arundel Spire	150 5 0		Red Hill Windmill	104 52 0	
Chichester Spire	20 33 40	76355	Egremont's Summer House	90 53 0	27943
Highdown Windmill	79 41 20	27257	Black Down Telegraph	46 4 0	31855
Storrington Hill, Barrow	79 45		Kirford Steeple	43 3 0	
Chichester Spire	29 56	52187	Egremont's Summer House	114 27 0	26986
High Down Windmill	39 54	40597	Black Down, Telegraph	36 44 0	41073
Bury Hill	110 10		Keyshot Hill, Barrow	28 49 0	
Bury Hill	41 35 30	26277	Black Down Telegraph	16 38 0	7449
High Down Windmill	39 47 20	27257	Red Hill Windmill	12 13 0	10077
Storrington Hill Barrow	98 37 10		Lurgershall Spire	151 9 0	
Bury Hill	39 23	24396	Hascombe Hill Telegraph	56 57 0	31162
High Down	35 27	26688	Kirford Steeple	48 4 0	35111
Storrington Hill, *Tree*	105 10 0		Rudgwick Steeple	74 59 0	
Bury Hill	31 53	56868	Egremont's Summer House	54 44	52579
Storrington Hill Barrow	126 14	37238	Billinghurst Spire	72 21	45050
Shipley Spire	21 53		Ash Tree, above Torrington	52 55	
Bury Hill	32 4 0	35673	Egremont's Summer House	42 40 0	25126
Storrington Hill Barrow	101 47 20	19347	Ash Tree, above Torrington	26 32 0	38119
Warminghurst Spire	46 8 40		Duncton Fire Beacon	110 48 0	
Bury Hill	54 8	25954	Black Down Telegraph	41 51	9210
Storrington Hill, *Tree*	66 24	22952	Red Hill Windmill	31 15	11844
Pulborough Spire	59 28 0		North-Chapel Spire	06 54	
Bury Hill	51 55	25970	Black Down Telegraph	65 44	15772
Storrington Hill Barrow	33 21	22871	Red Hill Windmill	53 51	17807
Pulborough Spire	04 44		Shillingly, Park Lodge	60 25	
Bury Hill	9 5	32788	Egremont's Summer House	52 44	8166
Storrington Hill Barrow	39 41	8000	Duncton Fire Beacon	17 51	21202
Sullington Windmill	31 14 0		Petworth Steeple	09 25	
Steep Down	52 12	8917	Egremont's Summer House	47 25	20805
Chanctonbury Ring	28 24	14150	Duncton Fire Beacon	54 12	18887
Intrenchment, Gisbury Hill	99 24 0		Codmoor Hill	78 23	
Egremont's Summer House	07 8	21749	Duncton Fire Beacon	36 20 0	15576
Billinghurst Spire	22 24	54540	Codmoor Hill	55 31 0	11196
Blackdown Telegraph	50 28		Waterfield Windmill	88 9 0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Duncton Fire Beacon -	59	47	0	23151
Codmoor Down -	70	7	0	21274
Amberley Steeple -	50	6	0	
Duncton Fire Beacon -	23	27	0	23131
Waterfield Windmill -	121	31	0	10798
Amberley Steeple -	35	2	0	
Amberley Steeple -	39	12	0	19426
Codmoor Down -	63	8	0	13763
Pulborough Spire -	77	40	0	
Duncton Fire Beacon -	20	15	0	15910
Amberley Steeple -	33	50	0	9899
Bury Hill -	125	55	0	
Amberley Steeple -	91	26	0	10006
Bury Hill - -	44	35	0	14251
Cold Waltham Steeple	43	59	0	
Heyshot Hill Barrow -	87	57	0	32644
Black Down Telegraph	39	16	0	51544
Beacon Hill Telegraph	52	47	0	
Heyshot Hill Barrow -	58	31	0	17073
Beacon Hill Telegraph	31	32	0	27839
Midhurst Steeple -	89	57	0	
Heyshot Hill Barrow -	116	40	0	27063
Beacon Hill Telegraph	28	21	0	50881
Egremont's Summer House	34	59	0	
Beacon Hill Telegraph	34	57	0	13623
Midhurst Steeple -	25	5	0	18409
Barrow, east of Beacon Hill	119	58	0	
Beacon Hill Telegraph	71	58	0	5405
Barrow, east of Beacon Hill	23	16	0	13[illegible]08
Elsted Steeple -	84	46	0	
Beacon Hill Telegraph	89	45	0	33469
Barrow east of Beacon Hill	68	4	0	36081
Milland House -	22	11	0	
Beacon Hill Telegraph -	31	44	20	13628
Egremont's Summer House	10	20	20	39945
Barrow, east of Beacon Hill	137	55	20	
Egremont's Summer House	70	12	0	42353
Barrow east of Beacon Hill	57	17	0	47363
Lynchmere Steeple -	52	31	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	″	′	
Duncton Fire Beacon -	44	0	0	15872
Waterfield Windmill -	69	20	0	31654
Bury Hill - -	66	40	0	
Duncton Fire Beacon -	116	21	0	21234
Bury Hill - -	36	57	0	31654
Petworth Steeple -	26	42	0	
Arundel Spire -	55	19	0	8356
Highdown Windmill -	17	30	0	22849
Leominster Steeple -	107	11	0	
Highdown Windmill -	158	57	0	8188
Arundel Spire - -	4	55	0	34314
Goring Spire - -	16	8	0	
High Down Windmill	46	39	0	21234
Arundel Spire -	52	13	0	19537
Little Hampton Windmill	81	8	0	
Highdown Windmill	54	32	0	10774
Arundel Spire -	23	23	0	22111
Preston Spire - -	102	5	0	
Highdown Windmill -	47	22	0	15305
Arundel Spire -	34	50	0	19713
Rustington Steeple -	97	48	0	
Crowborough Beacon -	0	1	10	128338
Leith Hill Station -	98	35	0	44
Leith Hill Tower -	81	23	50	

Horsham Spire to Leith Hill 43558.

Horsham Spire -	0	2	16	43526
Leith Hill - - -	41	20	0	44
Leith Hill Tower -	138	37	44	
Leith Hill Tower -	27	1	0	44658
Horsham Spire - -	79	33	0	20628
Colgate Hill Fire Beacon	73	26	0	
Leith Hill Tower -	30	14	0	44665
Crowborough Beacon	14	4	0	92526
Colgate Hill Fire Beacon	135	42	0	
Crowborough Beacon -	74	22	0	72134
Leith Hill Tower -	32	32	0	129169
Mount Harry Fire Beacon	73	6	0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Crowborough Beacon -	18 10	103650	Crowborough Beacon -	7 3 30	26020
Leith Hill Tower -	47 16	43996	Witchcross Beach -	56 27	3136
Reigate West Windmill	114 34		Witchcross Clump -	16 29 30	
Crowborough Beacon -	21 0	77497	Reigate West Mill -	66 53 0	42672
Leith Hill Tower - -	26 23	62498	Leith Hill Tower -	55 14 0	47775
Outwood Smock Windmill	132 37		Crawley Steeple -	57 53 0	
Crowborough Beacon -	69 51 0	54107	Leith Hill - -	87 30 0	21443
Mount Harry Beacon -	43 31 0	73770	Reigate West Windmil	26 27	48096
Selswell Windmill -	66 38 0		Shire Mark Windmill	66 3	
Crowborough Beacon -	64 10 30	48316	Reigate West Windmill	14 59 0	55617
Mount Harry Beacon -	40 24 30	07091	Crawley Steeple -	127 33 0	18136
West Hoathley Spire -	75 25 0		Colgate Fire Beacon -	37 28 0	
Crowborough Beacon -	63 18 0	27943	Crawley Steeple - -	38 31 0	35518
Mount Harry Beacon -	22 44 0	64598	Reigate West Windmill	56 4 0	20659
Witchcross Beech -	93 58 0		Outwood Smock Windmill	85 25 0	
Crowborough Beacon -	77 48 30	14321	Mount Harry Fire Beacon	11 23 0	30093
Mount Harry Beacon	11 27 0	70514	Selswell Windmill -	7 38 30	44056
Deal Mount Clump -	90 44 30		Chailey Windmill -	160 58 30	
Leith Hill Tower -	29 15 30	74532	Leith Hill Tower -	26 13 0	81651
Mount Harry Beacon -	29 35 30	73767	Selswell Windmill -	87 58	36093
Selswell Windmill -	121 9 0		Cuckfield Spire -	65 49	
Selswell - - -	38 21 0	7699	Crowborough Windmill	14 41 0	14330
Crowborough Beacon -	5 40 30	48306	Reigate West Windmill	2 19 0	89061
West Hoathley Spire -	135 58 30		Deal Mount Clump -	163 0 0	
Crowborough Beacon -	22 38 0	103623	Reigate West Windmill	12 59	62775
Selswell Windmill -	136 10 0	57579	Crowborough Windmill	18 22	44759
Reigate West Windmill	21 12 0		Beech Hill, *Tree* -	148 39	
Crowborough Beacon -	30 30	69991	Mount Harry -	32 18	47313
Selswell Windmill -	99 54	30060	Chailey Windmill -	11 23	27151
Cuckfield Spire -	49 36		Maresfield Steeple -	36 19	
Selswell Windmill -	55 13	35720	Chailey Windmill -	13 7 30	31790
Crowborough Beacon -	41 1	44703	Selswell Windmill -	27 46 30	15491
Beech Hill, *Tree* -	83 46		Ardingly Spire -	39 6 0	
Crowborough Beacon -	26 22	44692	Chailey Windmill -	147 51 0	31811
Witchcross Beech -	121 22	23245	Mount Harry Beacon -	16 32 0	59486
East Grinstead Spire -	32 16		Ardingly Spire -	15 37 0	
Crowborough Beacon -	67 35	41531	Crawley Steeple	105 28 0	21288
Witchcross Beech -	78 30	40256	Leith Hill Tower	21 0 0	57255
Mark Beech, *Oak* -	39 55 0		Burston Spire	53 32 0	

Names of Stations and intersected Objects.	Angles for Calculation			Distances in Feet.
Crawley Steeple -	70	4	0	20665
Leith Hill Tower -	25	30	0	45126
Horley Steeple -	84	26	0	
Leith Hill Tower -	9	10	0	56854
Crawley Steeple -	132	41	0	12321
Kilgate Heath, *House*	38	9	0	
Deal Mount Clump	107	52	0	34894
Crowborough Beacon -	53	0	0	41585
Mark Beech - -	19	8	0	
Mark Beech - -	21	40		39937
Deal Mount Clump -	98	34		14911
Crowborough Windmill	59	46		
Mark Beech - -	19	21	30	36574
Deal Mount Clump	88	10	0	12129
Witchcross Large Clump	72	28	30	
Mark Beech - -	23	52	0	7749
Deal Mount Clump - -	6	26	0	27984
Cowden Spire - -	149	42	0	
Witchcross, Beech -	16	4		3844
Mark Beech - -	1	40		36578
Witchcross, Large Clump	162	16		
Mark Beech - -	40	50	0	39923
Witchcross, Large Clump	76	17	0	26870
Crowborough Windmill	62	53	0	
Witchcross Large Clump	38	39	0	36535
Crowborough Windmill	94	10	0	22879
Groombridge Steeple	47	11	0	
Deal Mount Clump -	81	44	0	28043
Witchcross Large Clump	73	44	0	28708
Cowden Spire - -	24	32	0	
Deal Mount Clump	99	26	0	12939
Witchcross Large Clump	41	51	0	19130
Hartfield Spire -	38	43	0	
Deal Mount Clump -	118	9	0	12458
Witchcross Large Clump	31	23	0	21093
Withyham Steeple -	30	28	0	
Leith Hill Tower -	15	56	30	63603
Outwood Smock Windmill	85	36	30	17520
Nutfield Windmill	78	27	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
Crawley Steeple -	14	34		49448
Outwood Smock Windmill	134	49		17532
Nutfield Windmill	30	38	0	
Crawley Steeple -	33	16		23542
Outwood Smock Windmill	39	12		20432
Capt Thorn Windmill	107	32	0	
Outwood Smock Windmill	28	20		19313
Crawley Steeple -	26	20		20663
Horley Spire - -	125	20	0	
Outwood Smock Windmill	11	49	0	26730
Crawley Steeple -	30	20	0	10839
Lowfield Heath Windmill	137	51	0	
Crawley Steeple -	23	41		21274
Nutfield Windmill -	15	55		31160
Burstow Spire -	140	24	0	
Crawley Spire -	47	53	0	23528
Nutfield Windmill -	27	24	0	37923
Capt Thorn Windmill	104	43	0	
Crawley Steeple -	101	40	0	20921
Nutfield Windmill -	20	53	30	57455
Rusper Steeple -	57	26	30	
Nutfield Windmill -	16	11	0	39648
Capt Thorn Windmill	90	48	0	11051
Felbridge Monument	73	1	0	
Colgate Fire Beacon -	67	23	30	15965
Crawley Steeple -	50	51		19005
Hand Cross Clump -	61	45	30	
Reigate West Windmill	14	29		61660
Colgate Fire Beacon -	104	50		15953
Hand Cross Clump	60	41		
Leith Hill Tower -	38	2	0	33821
Colgate Fire Beacon -	49	9	0	27548
Charlewood Steeple -	92	49	0	
Leith Hill Tower -	64	36	30	28843
Nutfield Windmill -	26	57	30	57480
Rusper Steeple -	88	26	0	
Crawley Steeple -	12	9		12927
Hand Cross Clump - -	20	20		7448
Kilgate Heath, *House* -	147	31	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″			°	′	″	
Outwood Smock Windmill	73	30	0	26706	Maresfield Steeple -	115	3	0	15259
Reigate West Windmill	53	19	0	31929	Mount Harry -	14	25	0	55522
Lowfield Heath Windmill	53	11	0		Netley End, *Large Fir*	50	32	0	
Maresfield Steeple -	46	35		12207	Chanctonbury Ring -	9	45	1	60736
Mount Harry Fire Beacon	12	50		39921	Leith Hill Station -	13	39	33	43558
Fletching Spire -	120	35	0		Horsham Spire -	156	35	27	

ART. IX. *Secondary Triangles for the Survey of the County of Surrey. Plate 9.*

The Distances serving as Base Lines for the following Triangles are

Hundred Acres to	Hanger Hill Tower	71932 Feet.
St. Ann's Hill to	Hanger Hill Tower	68896
	Banstead	76688
	Sunbury Steeple	26022
	Stanwell Spire	23720
	King's Arbour	34455
	Bagshot Heath	46955
Severndroog Tower to	Hanger Hill Tower	84375
	Bromley Steeple -	24930

Hundred Acres	42	3	56	35957	St. Ann's Hill -	143	48	0	476
Hanger Hill -	28	2	10	51254	Banstead Spire -	0	12	12	79324
Streatham Spire	109	53	54		St. Ann's Clump	35	59	48	
Hundred Acres	27	51	56	47896	Banstead - -	15	13	40	14545
Streatham Spire	105	55	10	23279	Harrow Spire -	2	36	20	84035
Fulham Steeple	46	12	54		Yewell Steeple -	162	10	0	
St. Ann's Hill -	62	10	10	78939	Banstead -	32	11	0	11276
Hanger Hill Tower	65	20	40	76811	Yewell Steeple -	50	13	0	7815
Banstead Spire	52	29	10		Epsom Spire -	97	36	0	
St. Ann's Station	16	15	40	48919	Hanger Hill Tower	58	57	20	76811
Banstead Station	25	23	22	33062	Severndroog Tower	55	46	35	79599
Cockerow Hill	137	45	58		Banstead Spire -	65	16	5	
St. Ann's Hill -	79	1	50	77301	Banstead Spire -	18	56	0	55614
Banstead Station	50	45	40	97982	St. Ann's Hill, Clump	34	2	0	32242
Harrow Spire	59	12	30		Pain's Hill Spire -	127	2	0	

Names of Stations and intersected Objects.	Angles for Calculation.	
Pain's Hill Spire -	40 22	5911
St. Ann's Clump -	7 51 30	28001
George's Tree - -	131 46 30	
Banstead Spire -	6 5 0	55587
Pain's Hill Spire -	86 42 0	5900
George's Tree -	87 13 0	
Pain's Hill - -	78 2 0	7595
George's Tree -	59 46 0	8599
Byfleet Spire -	42 12 0	
Pain's Hill - -	76 22 0	19751
George's Tree -	86 16 30	19235
Holly, Okeshut Warren	17 21 30	
St. George's Tree - -	60 29 0	28023
Holly, Okeshut Warren	77 27 0	24983
Effingham Steeple - -	42 4 0	
Pain's Hill Spire -	5 50	26932
Holly, Okeshut Warren	158 45 30	7555
Cabbage Hill Telegraph	15 24 30	
Pain's Hill Spire -	27 46 0	29622
Cabbage Hill Telegraph	87 0 30	13819
Leatherhead Steeple -	65 13 30	
St. Ann's Clump -	39 23 0	37574
Pain's Hill Spire -	71 7 40	21842
Woking Monument	69 29 20	
St. Ann's Clump -	57 25 0	49605
Pain's Hill Spire -	82 28 0	42161
Warplesdon Steeple -	40 7 0	
St. Ann's Clump -	45 19	60450
Pain's Hill Spire -	103 26	44189
Guildford Steeple -		
Woking Monument -	133 25 30	21210
St. Ann's Clump -	18 5 30	49606
Worplesdon Steeple -	28 29 0	
Woking Monument -	102 2 30	23375
Pain's Hill Spire - -	40 33 0	35164
Merrow Steeple -	37 24 30	
Woking Monument -	66 22	37962
Pain's Hill Spire	79 13	35404
Nettlebeath Telegraph	34 25	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Woking Monument -	33 7 0	16093
Pain's Hill Spire -	46 26 0	12135
Ockham Steeple -	100 27 0	
Woking Monument -	63 16 30	26343
Pain's Hill Spire -	66 59 0	25564
West Horseley Mill -	49 44 30	
Woking Monument	123 16 0	28232
Pain's Hill Spire -	32 18 30	44167
Guildford Steeple -	24 25 30	
Guildford Steeple -	9 38 0	31754
Woking Monument -	120 3 0	6139
Pirford Steeple -	50 19 0	
Guildford Steeple -	119 51 0	12123
Woking Monument -	17 3 30	35843
Yew Tree, Hog's Back	43 5 30	
Guildford Steeple -	47 59	15875
Woking Monument -	33 49	21192
Worplesdon Steeple -	98 12	
Guildford Steeple -	52 48	10642
Woking Monument -	21 15	23388
Merrow Steeple -	105 57	
Guildford Steeple -	92 56	31646
Woking Monument -	46 38	43474
Romping Down, *Clump*	40 26	
Guildford Steeple -	20 22 0	49083
Woking Monument -	136 9 0	24658
George's Tree -	23 29 0	
Guildford Steeple -	68 20	15891
George's Tree -	18 52	45669
Worplesdon Steeple -	92 48 0	
Woking Monument -	116 49 0	31179
George's Tree -	35 42 0	47684
St. Martha's Chapel -	27 29 0	
Woking Monument -	64 39 0	29134
George's Tree -	65 10 0	29011
East Horseley Steeple -	50 11 0	
Woking Monument -	17 39	29033
George's Tree -	108 52	9302
Cobham Spire - -	53 29 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Woking Monument	120 6 0	9342
George's Tree	15 24 0	30435
Horsehill Steeple	44 30 0	
Woking Monument	79 16 0	37957
George's Tree	64 45 0	41233
Nettleheath Telegraph	35 59 0	
Guildford Steeple	71 49 0	12116
Worplesdon Steeple	43 38 0	16720
Yew Tree, Hog's Back	64 33 0	
Yew Tree, Hog's Back	82 51 0	22739
Worplesdon Steeple	58 23 0	26495
Ash Spire	38 46 0	
East Horseley Steeple	17 14 0	27188
George's Tree	69 18 0	8610
Byfleet Spire	93 28 0	
St. Ann's Hill	11 24 0	48919
Sunbury Steeple	156 12 30	23968
Cockcrow Hill	12 23 30	
St. Ann's Hill	79 1 30	14206
Sunbury Steeple	30 53 0	27170
Staines Steeple	70 5 30	
St. Ann's Station	27 14 0	20959
Sunbury Steeple	52 24 0	12106
Oatlands, Temple	100 22 2	
Sunbury Steeple	37 20 0	55141
Cockcrow Hill	120 43 30	38901
Headley Steeple	21 56 30	
Sunbury Steeple	45 52 0	19230
Cockcrow Hill	52 32 0	17389
Ellis's Summer House	81 36 0	
Sunbury Steeple	13 53 0	9069
Cockcrow Hill	8 10 0	15319
West Moulsey Steeple	157 57 0	
Sunbury Steeple	22 58 30	24020
Cockcrow Hill	78 49 0	9557
Kingston Steeple	78 12 30	
Sunbury Steeple	99 11 0	6670
West Moulsey Steeple	33 1 0	12086
Walton Steeple	47 48 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Kingston Steeple	102 54 0	14740
Sunbury Steeple	27 45 0	30861
Star and Garter Inn, Richmond	49 21 0	
Cockcrow Hill	99 46 0	27627
Kingston Steeple	62 23 0	30727
Sutton Steeple	17 51 0	
Cockcrow Hill	87 7 0	11365
Kingston Steeple	51 38 0	14477
Maldon Steeple	41 15 0	
Woking Monument	153 53 0	6145
Worplesdon Steeple	5 47 0	26847
Pirford Steeple	20 20 0	
Yew Tree, Hog's Back	104 15 0	22764
Woking Monument	28 1 30	46958
Ash Spire	47 43 30	
Yew Tree, Hog's Back	14 47 0	36495
Woking Monument	86 35 0	9329
Horsehill Steeple	78 38 0	
Yew Tree, Hog's Back	28 2 0	43587
Woking Monument	97 19 0	20654
Chobham Spire	54 39 0	
Yew Tree, Hog's Back	13 15 0	43573
Horsehill Steeple	120 39 0	11609
Chobham Spire	46 6 0	
St. Ann's Hill	20 14 0	14195
Stanwell Spire	25 16 0	11501
Staines Steeple	134 30 0	
St. Ann's Hill	31 29 32	14304
Bagshot Heath	12 8 5	35553
Duke of Glocester's Tower	136 22 3	
St. Ann's Hill	81 58 10	20959
King's Arbour	33 21 20	37745
Oatlands, Temple	64 40 30	
St. Ann's Hill	38 44 0	476
Staines Steeple	1 14 0	13827
St. Ann's Hill Clump	140 2 0	
Staines Steeple	17 17 0	16382
St. Ann's Hill	106 34 0	5078
Chertsey Steeple	56 9 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet	Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Staine's Steeple	18	29	0	16391	Severndroog Tower	5	0	30	60553
St. Ann's Hill Clump	108	18	0	5473	Combehurst	144	45		9159
Chertsey Steeple	53	13	0		Beggar's Bush	30	14	30	
St. Ann's Hill Clump	45	2	0	19509	Banstead Down, Pollard	21	31		23519
Staines Steeple	89	50	0	13803	Combehurst	65	37		9471
Ashford Spire	45	8	0		Croydon Steeple	92	52		
St. Ann's Hill Clump	15	16	0	28069	Banstead Down, Pollard	84	24	[illegible]	34063
Staines Steeple	98	35	0	22450	Combehurst	56	28	0	40668
Feltham Spire	29	9	0		Wimbledon Spire	39	8	0	
St. Ann's Hill Clump	38	50	0	27474	Combehurst	69	37	30	9168
Staines Steeple	113	44	0	18819	Croydon Steeple	53	51	0	10641
Bedfont Steeple	27	26	0		Beggar's Bush	56	31	90	
St. Ann's Hill Clump	79	4	0	13887	Combehurst	50	25	0	22189
Staine's Steeple	50	37	0	17641	Croydon Steeple	105	16	0	17726
Duke of Glocester's Tower	50	19	0		Carshalton Windmill	24	19	0	
St. Ann's Clump	27	14	0	12999	Combehurst	154	7	0	5811
Staines Steeple	69	7	0	6366	Croydon Steeple	9	47	30	14916
Egham Spire	83	39			Sanderstead Spire	16	5	30	
St. Ann's Hill Clump	21	21	3	3329	Combehurst	114	40	30	18330
Staines Steeple	6	27	0	10794	Croydon Steeple	44	12	30	23888
Thorpe Steeple	152	11	30		Coulsdon Spire	21	7	0	
St. Ann's Hill Clump	58	29		9000	Combehurst	84	50		30476
Staine's Steeple	40	4	0	11920	Beggar's Bush	78	3	0	31024
Leleham Steeple	81	27	0		Streatham Spire	17	7	0	
Severndroog Tower	44	2	10	29989	Combehurst	26	45	30	28036
Bromley Steeple	80	48	50	21116	Streatham Spire	66	40	30	13746
Sydenham Common	55	9	0		Mitcham Steeple	86	34	0	
Severndroog Tower	31	55	0	52842	Combehurst	10	57		30857
Sydenham Common	118	1	0	31646	Mitcham Steeple	111	5		6282
Combehurst	30	4	0		Tooting Steeple	57	58		
Severndroog Tower	10	55	0	42804	Combehurst	51	11	30	19636
Sydenham Common	146	3	0	14515	Bromley Steeple	42	38	0	22592
Buxton Windmill	23	2	0		Norwood House	86	10	30	
Bromley Steeple	76	40	0	28927	Combehurst	16	22	30	24499
Sydenham Common	62	50	0	31638	Bromley Steeple	51	52	30	8781
Combehurst	40	30	0		Beckingham Spire	111	45	30	
Severndroog Tower	12	37	40	74622	Croydon Steeple	76	29	0	31043
Combehurst	140	45	41	25790	Banstead Down, Pollard	61	41	0	34286
Pollard, Banstead Down	26	36	40		Earl Spencer's House	41	50	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Combehurst - -	134 48 30	24498	Botley Hill -	99 54 0	14052
Banstead Down, *Pollard*	21 59 0	46282	Leith Hill - -	8 17 0	96084
Beckingham Spire -	23 12 30		Golden Square -	71 49 0	
Combehurst -	88 27 0	5806	Golden Square -	31 38 0	14911
Banstead Down, Pollard	12 45 30	26282	Botley Hill - -	80 9 30	7937
Sanderstead Spire -	78 47 30		Tatesfield Spire -	68 12 30	

ART. X. *Secondary Triangles for the Survey of Middlesex and Hertfordshire. Plate* 10.

The Distances serving as Base Lines for the following Triangles are,

Hampstead Heath to	Severndroog Tower -	64855 Feet
	High Beech - -	59455
Stanmore Station to	Pen Steeple - -	75325
	Kensworth - - -	98577
	Hanger Hill Tower - -	37431
Highgate Chapel to Argyle Street Observatory - -		20766
Lillyhoe to Royston - - -		79867

Severndroog Tower -	19 34 54	84374	Stanmore Station - -	61 20 48	29035
Hampstead Heath -	117 22 12	31843	Harrow Spire -	82 21 0	25708
Hanger Hill Tower -	43 2 54		Hendon Steeple -	36 18 12	
Hampstead Heath -	115 39 58	43671	Harrow Spire -	25 7 0	25727
Highbeech - -	26 04 7	87699	Hampstead Spire -	40 4 30	16962
Stanmore Station -	37 39 55		Hendon Steeple -	114 48 30	
Stanmore Station - -	5 40 53	48315	Harrow Spire - -	121 40 0	27838
Hampstead Heath -	132 39 30	6504	Hampstead Spire -	24 58 0	56134
Highgate Chapel -	41 39 37		Hayes Steeple -	33 22 0	
Pen Steeple - -	12 21 17	79992	Harrow Spire - -	45 9 0	11968
Stanmore Station -	99 20 18	17345	Stanmore Station -	43 37 0	12308
Harrow Spire -	68 18 25		Pinner Steeple -	91 14 0	
Stanmore Station -	10 17 51	17345	Harrow Spire - -	97 56 0	42784
Hanger Hill Tower -	8 39 23	20553	Stanmore Station -	61 14 15	48334
Harrow Spire -	161 2 46		Highgate Chapel -	20 49 10	
Stanmore Station -	40 38 20	44667	Harrow Spire -	48 1 0	16500
Hanger Hill Tower -	83 4 10	29305	Stanmore Station -	62 47 0	13792
Hampstead Spire -	56 17 30		Little Stanmore Steeple	69 12 0	
Stanmore Station -	150 46 12	17343	Harrow Spire -	80 47 0	20151
Hampstead Spire -	21 44 17	36274	Stanmore Station -	54 39 0	24398
Harrow Spire -	107 29 31		Ruislip Steeple -	44 34 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ' "			° ' "	
Harrow Spire	68 12 0	31302	Kensworth	18 16 0	107253
Hanger Hill Tower	58 0 0	36892	Bushy Heath	102 9 0	34388
Hillingdon Steeple	33 48 0		Hadley Steeple	59 35 0	
Highgate Chapel	67 50 0	17561	St. Alban's Spire	1 49 34	5[illegible]377
Harrow Spire	24 13 0	39647	Bushy Heath	162 50 40	5443
Finchley Lodge, Direction Post	87 57 0		Stanmore Station	15 19 46	
Hillingdon Steeple	110 50 0	5986	St. Alban's Spire	43 33 45	48465
Harrow Spire	9 30 0	33895	Stanmore Station	65 26 50	36728
Uxbridge Steeple	59 40 0		Hadley Steeple	70 59 25	
Hillingdon Steeple	71 34 0	11245	Stanmore Station	105 59 12	87699
Uxbridge Steeple	77 10 0	10941	Kensworth	34 29 11	148898
Iver Steeple	31 16 0		Highbeech	39 31 37	
Uxbrige Steeple	36 23 0	6961	Stanmore Station	42 11 22	5447
Hillingdon Steeple	84 43 0	4156	Kensworth	2 12 58	94512
Cowley Steeple	58 54 0		Bushy Heath	135 35 40	
Hayes Steeple	59 59 0	17968	Stanmore Station	71 15 30	70391
Harrow Spire	39 31 0	24439	Kensworth	41 16 7	101059
Harefield Steeple	80 30 0		Berkhampstead Gazebo	67 28 23	
Hanger Hill Tower	66 14 0	8351	Acton Steeple	70 29 0	22542
Hampstead Spire	16 25 0	27042	Chiswick Steeple	85 12 0	21288
Acton Steeple	97 21 0		Paddington Chapel	24 19 0	
Hanger Hill Tower	59 45 0	7058	Acton Steeple	29 26	12167
Acton Steeple	51 44 0	7757	Chiswick Steeple	102 14	6118
Ealing Steeple	68 26		Hammersmith Steeple	48 20	
Acton Steeple	98 31 0	9300	Highgate Chapel	23 21 24	24061
Hampstead Spire	17 56 0	29871	Argyle Street Observatory	97 54 0	9631
Chiswick Steeple	63 33 0		St. Paul's	58 44 36	
Harrow Spire	58 23	16029	Highgate Chapel	46 59	15185
Hendon Steeple	38 15	22050	St. Paul's	39 1 0	17636
Great Stanmore Steeple	83 21		Stoke Newington Steeple	94 0 0	
Harrow Spire	76 2 30	13109	Highgate Chapel	129 24 0	32131
Great Stanmore Steeple	44 40 30	18094	St. Paul's	29 11 0	50919
Barn Hill House	59 17 0		Enfield Windmill	21 25 0	
Harrow Spire	34 31	29120	Enfield Windmill	109 1	3460
Great Stanmore Steeple	115 46	18322	Highgate Chapel	5 37	33418
Sir J. Anderson's House	29 43		Enfield Steeple	65 22	
Stanmore Station	01 27 54	5433	Enfield Windmill	40 38 0	8185
Hampstead Heath	6 47 53	45070	Highgate Chapel	11 29 0	26311
Bushy Heath	71 44 13		White's Barn	127 53 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distance in Feet.	Names of Stations and inter. sected Objects.	Angles for Calculation.	Distances in Feet.
Enfield Windmill -	11 54 0	24393	Stanmore Station -	46 0 40	16520
Highgate Chapel -	31 20 0	9673	St. Peter's Steeple -	17 35 0	39345
Hornsey Steeple -	136 46		Watford Spire -	116 24 20	
Enfield Windmill -	23 35	19716	Watford Spire -	111 26 30	17647
Hornsey Steeple -	51 17	10110	Stanmore Station -	35 34 0	25239
Tottenham Steeple -	105 8		Rickmansworth Spire	32 59 30	
Hornsey Steeple -	22 18	18004	St. Peter's Steeple	10 8 0	41229
Tottenham Steeple -	133 47	9463	Watford Spire -	99 49 0	7362
Edmonton Steeple -	23 55		Bushey Steeple -	70 3 0	
Hampstead Heath -	0 17 56	59114	St. Peter's Steeple -	32 27 0	
Highbeech -	42 5 4	460	Watford Spire -	78 16 0	22503
Highbeech new station	137 37 0		Elstree Steeple -	69 17 0	
Highbeech new station	33 5 52	53288	Watford Spire -	65 34 0	11875
Hampstead Heath -	63 27 5	32493	Bushey Steeple -	77 14 0	11085
Barnet Steeple -	83 27		Aldenham Steeple -	37 12 0	
Bushey Heath -	74 44	41722	St. Peter's Steeple -	36 26 30	25496
Hadley Steeple -	59 49 30	46559	Bushey Steeple -	36 10 0	25063
St. Alban's Spire -	45 26 28		Abbot's Langley Spire	107 23 30	
St. Alban's Spire -	1 57 34	46950	Abbot's Langley Spire	23 24 0	19165
Bushey Heath -	162 50 40	5442	Bushey Steeple -	43 19 30	11095
Stanmore Station -	15 11 46		Aldenham Steeple -	113 10 30	
Hadley Steeple -	70 10 10	38066	Bushey Steeple -	48 9 0	8237
St. Alban's Spire -	46 47 2	49135	Aldenham Steeple -	47 37 0	8307
Berkhampstead Gazebo	63 2 48		Sly Hill House -	84 14 0	
Stanmore Station -	34 43 42	70391	Hadley Steeple -	7 2 10	37576
Highbeech -	53 20 24	49988	Bushey Heath -	122 15 20	5443
Berkhampstead Gazebo	91 55 54		Stanmore Station	50 42 30	
Hadley Steeple -	67 9 0	46851	Stanmore Station	44 58 30	29088
Berkhampstead Gazebo	65 17 0	47529	Hadley Steeple -	50 24 55	20676
St. Peter's Steeple, *St. Alban's*	47 34 0		Hendon Steeple -	84 36 35	
Stanmore Station -	42 21 50	48981	Hendon Steeple -	6 3 0	16168
Berkhampstead Gazebo	43 58 50	47529	Hadley Steeple -	9 8 0	10735
St. Peter's Steeple -	93 39 20		Totteridge Spire -	164 49 0	
St. Peter's Steeple -	63 40 0	39331	Hadley Steeple -	32 48 0	7336
Hadley Steeple -	50 10 0	45903	Totteridge Spire -	41 1 0	6055
Watford Spire -	66 10 0		Poole's House -	106 11 0	
Stanmore Station -	70 20 44	17345	Hadley Steeple -	67 27 0	11080
St. Peter's Steeple -	2 31 14	66145	Totteridge Spire -	57 38 0	12115
Harrow Spire	7 8 2		Belmont House -	54 55 0	

Names of Stations and intersected Objects.	Angles for Calculation.			
	°	′	″	
Hadley Steeple -	18	7	0	8212
Totteridge Spire -	41	27	0	3871
Lee's Summer House -	120	20	0	
Hadley Steeple -	109	18	0	3573
St. Peter's Steeple -	4	1	0	48150
Barnet Steeple -	66	41	0	
St. Peter's Steeple -	58	46	30	41150
Abbot's Langley Spire	83	15	0	35435
Elstree Steeple -	37	58	30	
St. Peter's Steeple -	28	21		31374
Elstree Steeple -	47	43	0	20137
Ridge Steeple -	103	56		
St. Alban's Spire -	5	7		29625
Berkhampstead Gazebo	7	40		19804
Hatfield Steeple -	167	13	0	
Hatfield Steeple -	7	34	0	12785
Berkhampstead Gazebo	13	17	0	7327
Essendon Steeple -	159	9	0	
St. Peter's Steeple -	21	55	0	41722
Berkhampstead Gazebo	60	28	0	17898
North-haw Windmill	97	37	0	
St. Peter's Steeple -	56	33		42787
Berkhampstead Gazebo	56	9	0	42986
Codicote Steeple -	67	18	0	
St. Peter's Steeple -	123	15		59667
Berkhampstead Gazebo	31	52	30	94494
Caddington Steeple -	24	52	30	
Hadley Steeple	36	45		62101
Berkhampstead Gazebo	107	28		38953
Neasdon Spire -	35	47		
Berkhampstead Gazebo	112	19		17902
Neasdon Spire -	19	54		48656
North-haw Windmill	47	47		
St. Peter's Steeple -	10	43	30	39694
Caddington Steeple -	19	33	0	22025
Flamstead Steeple -	149	43	30	
Caddington Steeple -	6	49		12595
Flamstead Steeple -	8	55	30	19634
Market Street Windmill	164	15	30	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Hadley Steeple	36	30	50	36688
St. Peter's Steeple -	51	30	0	27895
Hatfield Steeple -	91	59	10	
Hatfield Steeple -	13	17	0	24780
St. Peter's Steeple -	62	41	30	14057
Hill End - -	87	1	30	
Hill End - -	59	2	0	29618
St. Peter's Steeple -	92	40	0	25424
North Mims Spire -	28	18	0	
St. Peter's Steeple -	46	24	0	25492
Harrow Spire -	20	49	6	51952
Abbot's Langley Spire	112	46	54	
St. Peter's Steeple -	86	7	0	25497
Barnet Steeple -	28	43	30	52938
Abbot's Langley Spire	65	9	30	
Barnet Steeple -	64	58	55	42330
Abbot's Langley Spire	47	35	30	51951
Harrow Spire -	67	25	35	
Barnet Steeple -	48	56	50	75634
Harrow Spire -	97	20	10	57507
Cheneys Steeple	33	43	0	
Barnet Steeple -	16	2	5	75653
Abbot's Langley Spire	133	24	55	28768
Cheneys Steeple -	30	33	0	
Cheneys Steeple -	54	32	0	15972
Abbot's Langley Spire	33	44	0	23425
Bovington Lodge	91	44	0	
Abbot's Langley Spire	127	41	0	23453
St. Peter's Steeple -	24	59	0	43946
Bovington Lodge -	27	20	0	
Bovington Lodge -	15	56	0	19969
Abbot's Langley Spire	51	33	0	7000
Hythe Farm -	113	11	0	
Hythe Farm -	65	17	0	6122
Abbot's Langley Spire	51	24	0	7116
King's Langley Steeple	63	19	0	
King's Langley Steeple	116	51	0	18428
Abbot's Langley Spire -	46	48	0	22554
Hemel Hempstead Spire	16	21	0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	Distances in Feet.
Bovington Lodge -	84 21	36202	Clay Hill Bush -	75 14	20918
St. Peter's Steeple -	41 44 17	54116	Henlow Steeple -	39 26	31845
Little Gaddesden Steeple	53 54 43		Baldock Telegraph.	65 20	
Bovington Lodge -	23 59	26564	Clay Hill Bush	40 53 0	14090
Little Gaddesden Steeple	42 8 30	16092	Baldock Telegraph	35 27 0	12486
Gaddesden Place -	113 52 30		Wallington Barrow	103 40 0	
Lilleyhoe - -	57 21 58	16857	Clay Hill Bush	102 41 0	10277
Royston - -	11 20 19	72186	Baldock Telegraph	23 24 0	25244
Shillington Steeple -	111 17 33		Hinxworth Steeple	53 55 0	
Lilleyhoe - -	26 12 10	13801	Clay Hill Bush	12 50 0	17611
Shillington Steeple -	53 39 0	7566	Baldock Telegraph	46 17 0	5412
Higham Gobion Steeple	100 8 50		Baldock Spire -	120 53 0	
Lilleyhoe - -	39 43 17	56590	St. Neot's Steeple	13 15 37	51020
Royston - -	44 51 36	51269	Lilleyhoe -	11 56 6	56590
Biggleswade Spire -	95 25		Biggleswade Spire	154 48 17	
Shillington Steeple -	45 59	7342	St. Neot's Steeple	3 31 0	113121
Royston - -	4 30	67292	Lilleyhoe -	138 38 30	10501
Meppershall Steeple -	129 31 0		Galley Hill Bush	37 50 30	
Meppershall Steeple -	135 37 0	17083	Henlow Steeple	12 24 0	17256
Royston - - -	8 38 0	80306	Baldock Telegraph	13 53 0	15443
Clophill Steeple - -	36 15 0		Stotfold Steeple	153 43 0	
Clophill Steeple - -	36 53	17022	Henlow Steeple	27 36 0	26575
Meppershall Steeple -	71 15	10789	Baldock Telegraph	56 2 0	14845
Shefford Steeple -	71 52 0		Hitchin Hill, Tree	96 22 0	
Biggleswade Spire	17 48	33069	Henlow Steeple	43 17	31716
Royston - -	27 4 0	22216	Baldock Telegraph	68 4	23442
Clay Hill Bush	135 8 0		Hitchin Windmill	68 39	
Clay Hill Bush -	70 30 0	18333	Henlow Steeple	46 44	29405
Royston - -	47 2 0	23617	Baldock Telegraph	61 22	24390
Gilden Morden Steeple	62 28 0		Ashwell Spire -	71 54	
Clay Hill Bush	13 52	20906	Henlow Steeple	15 38	31709
Royston - -	31 56	36145	Hitchin Hill, Tree	114 55	9425
Baldock Telegraph	34 12 0		Hitchin Windmill	49 27	
Clay Hill Bush -	36 46 0	18929	Henlow Steeple	37 38	40056
Royston - -	58 6 0	13346	Hitchin Hill, Tree	101 53	24994
Lillington Steeple -	85 8 0		Great Offley Steeple	40 29 0	
Biggleswade Spire -	63 23	19463	Henlow Steeple -	12 30 0	38744
Clay Hill Bush	35 33 0	29927	Hitchin Hill, Tree	143 3 0	14060
Henlow Steeple -	81 4 0		Ippolyt's Steeple	24 21 0	

Names of Stations and intersected Objects.	Angles for Calculation.	Distance in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
Henlow Steeple	20 35 0	45830	Biggleswade Spire -	152 50 0	15354
Hitchen Hill Tree	135 23 0	22940	Henlow Steeple -	11 57 0	33856
Warden Lodge -	24 2 0		Sandon Spire -	15 13 0	
Hitchen Windmill	77 1 0	19451	Biggleswade Spire -	51 3 0	15864
Hitchen Hill Tree	75 4 0	19616	Henlow Steeple -	52 26 0	15565
Stevenage Spire	27 55 0		South-Hill Steeple -	76 31 0	
Henlow Steeple -	63 30 0	16466	North-Hill Steeple -	111 14 0	15022
Hitchen Windmill	31 8 0	28501	Biggleswade Spire -	35 17 0	24241
Meppersnall Steeple	85 22 0		Blunham Steeple -	33 29 0	
Henlow Steeple -	21 57	40032	Blunham Steeple -	63 55 0	16486
Hirchin Windmill	109 48	15904	Biggleswade Spire	41 4 0	22539
Great Offley Steeple	48 15		Everton Steeple -	75 1 0	
Henlow Steeple -	21 51	30579	Blunham Steeple -	17 24	9584
Hitchin Windmill	73 33	11866	Biggleswade Spire -	10 45	15366
Willien Steeple -	84 36		Sandon Spire - -	151 51	
Clay Hill Bush -	124 15 0	38725	Blunham Steeple -	41 46 0	22900
Wallington Barrow	41 44 0	48087	Biggleswade Spire -	64 51 0	16851
Abingdon Steeple	14 1 0		Warden Steeple -	73 23	
Hitchin Windmill -	20	34406	Biggleswade Spire -	75 36	16837
Stevenage Spire -	137	17348	Sandon Spire -	55 35	19768
Knebworth Steeple	22 52 0		Warden Steeple -	48 49	
Knebworth Steeple	104 28	13388	Henlow Steeple - -	65 20	38768
Stevenage Spire -	32 4 0	24418	Clay Hill Bush - -	68 41	37818
Datchworth Spire -	43 28 0		Potton Steeple -	45 59	
Datchworth Spire -	91 17 0	36374	Potton Steeple -	73 58	9059
Knebworth Steeple -	68 40	39041	Clay Hill Bush -	13 51	36373
Cottered Spire -	20 0		Cockayne Hatley Steeple	92 11 0	
Datchworth Spire -	63 51	16919	Shillington Steeple -	17 47 0	25231
Knebworth Steeple	68 40 0	16204	Lilleyhoe - -	32 55 50	10525
Weston Steeple -	47 29 0		Galley Hill Bush -	29 17 10	
Henlow Steeple -	6 29	8984	Tuddenham Steeple -	13 15 52	27766
Biggleswade Spire	5 30	10584	Lilleyhoe - -	37 15 26	10525
Longford Steeple	168 1		Galley Hill Bush - -	29 28 42	
Biggleswade Spire -	12 48 0	19010	Galley Hill Bush -	23 3 0	9155
Henlow Steeple -	77 37 0	4312	Tuddenham Steeple -	10 30 0	19670
Clifton Steeple -	89 35 0		Stretley Steeple -	46 27 0	
Biggleswade Spire -	106 49	14348	Lidlington -	45 51 0	30192
Henlow Steeple -	30 11 0	27317	Lilleyhoe - -	37 43 58	35398
North-Hill Steeple -	43 0		Tuddenham Steeple -	96 25 2	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Galley Hill Bush - -	49 5 30	28618	Kensworth - -	40 48 36	62458
Tuddenham Steeple -	67 21 0	23436	Lilleyhoe - -	89 59 30	40817
Dunstable Steeple -	63 33 30		Ampthill Steeple -	49 11 54	
Stretley Steeple -	111 53 0	25621	Bowbrickhill - -	27 21 44	22297
Tuddenham Steeple -	39 8 0	37670	Kensworth -	15 8 36	39229
Luton Steeple - -	28 59 0		Milton Bryant Steeple -	137 29 40	
Galley Hill Bush -	29 39 0	8804	Lilleyhoe - -	6 43 47	48649
Stretley Steeple -	70 57 0	4608	Bowbrickhill - -	14 48 55	22296
Barton Windmill -	79 24 0		Milton Bryant Steeple -	158 27 18	

ART. XI. *Secondary Triangles for the Survey of Part of Surrey and Part of Berkshire. Plate* 11.

The Distances used as Base Lines in the following Triangles are

Hind Head to { Norris's Obelisk - 82191 feet
{ Highclere Beacon - 160972,2

Hind Head - -	25 20 0	58047	Cæsar's Camp -	82 9 10	50338
Norris's Obelisk -	30 58 57	42264	Finchampstead Steeple	71 7 0	52703
Farnham Beacon -	123 41 3		Bowsey Hill - -	26 43 50	
Hind Head - -	34 6 17	50847	Cæsar's Camp -	66 49 50	88686
Highclere - -	13 29 14	122242	Finchampstead Steeple	97 39 30	82265
Farnham Beacon - -	132 24 29		Nettlebed Windmill -	15 30 40	
Farnham Beacon - -	37 44 34	48488	Cæsar's Camp -	63 53 34	51469
Norris's Obelisk -	82 28 36	29938	Bowsey Hill - -	59 4 30	53877
Finchampstead Steeple	59 46 50		Windsor Castle -	57 1 56	
Bagshot Heath -	103 23 30	9470	Cæsar's Camp -	79 13 34	51456
Norris's Obelisk - -	35 8 38	16004	Nettlebed Windmill -	32 35 30	93844
Cæsar's Camp -	41 27 5		Windsor Castle -	68 10 56	
Norris's Obelisk - -	52 42 9	29959	Cæsar's Camp -	47 51 15	70635
Cæsar's Camp - -	95 9 21	23929	Nettlebed Windmill -	51 44 57	66689
Finchampstead Steeple	32 8 30		Tower on Lord Boston's Estate at Hedsor -	80 23 48	
Hind Head - -	43 13 17	97996	Finchampstead Steeple	47 26 36	83458
Highclere - -	36 50 41	111915	Nettlebed Windmill -	67 13 2	66678
Finchampstead Steeple	99 56 2		Lord Boston's Tower -	65 20 22	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Cæsar's Camp - -	47	37	31	19295
Finchampstead Steeple	52	32	9	17959
Wokingham Steeple -	79	50	20	
Cæsar's Camp -	40	1	20	54881
Bowsey Hill - -	76	45	4	36258
St. Lawrence Steeple in Reading - -	63	13	36	
Bowsey Hill -	59	10	24	36131
St, Lawrence Steeple -	60	14	9	35742
Wokingham Steeple -	60	35	27	
Farnham Beacon -	9	23	54	63935
Finchampstead Steeple	144	25	19	17947
Wokingham Steeple -	26	10	47	
Wokingham Steeple -	52	37	50	54978
Finchampstead Steeple	109	25	36	46332
Mortimer Windmill -	17	56	34	
Finchampton Steeple -	36	20	0	20586
Norris's Obelisk -	42	24	20	18086
Barrow on Hartford Bridge Flats - -	101	15	40	
Finchampstead Steeple	23	26	50	20559
Farnham Beacon -	15	26	10	30735
Barrow - - -	141	7	0	
Finchampstead Steeple -	33	39	39	45643
Farnham Beacon -	67	27	46	26391
Odiham Steeple -	78	52	35	
Finchampstead Steeple	55	41	0	39103
Farnham Beacon -	50	41	30	41742
Tilney Hall - -	73	37	30	
Finchampstead Steeple -	29	1	57	27301
Farnham Beacon -	28	17	35	27956
Hartley Wintney Steeple	122	40	28	
Farnham Beacon -	43	43	45	27982
Barrow on Hartford Bridge Flats - -	61	28	8	22015
Hartley Wintney Steeple	74	48	7	
Finchampstead Steeple	52	28	24	27309
Barrow, Hartford Bridge Flats - -	79	39	42	22016
Hartley Wintney Steeple	47	51	54	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Finchampstead Steeple	29	37	2	53765
Norris's Obelisk -	122	17	31	31431
Station near Ash -	28	5	27	
Norris's Obelisk -	79	52	41	31447
Barrow on Hartford Bridge Flats - -	67	55	6	33407
Station near Ash -	32	12	13	
Finchampstead Steeple -	11	18	54	76261
Nettlebed Windmill	63	25	8	16731
Fawley Steeple -	105	15	58	
Wokingham Steeple	12	26	12	62159
Nettlebed Windmill -	53	3	8	16750
Fawley Steeple -	114	30	40	
Finchampstead Steeple	105	4	47	46584
Cæsar's Camp -	51	17	24	57643
Caversham Park -	23	37	49	
Finchampstead Steeple -	52	32	40	46540
Wokingham Steeple -	105	39	0	38367
Caversham Park -	21	48	20	
Cæsar's Camp -	10	4	26	41451
Bowsey Hill - -	37	14	36	11978
Ruscombe Steeple -	132	40	58	
Finchampstead Steeple	9	25	0	48208
Bowsey Hill -	56	48	19	9424
Wargrave Steeple -	113	46	41	
Wokingham Steeple -	14	53	59	33418
Bowsey Hill - -	65	56	35	9408
Wargrave Steeple -	99	9	26	
Cæsar's Camp -	92	31	19	38748
Finchampstead Steeple	56	29	14	46428
Shottesbrook Spire -	30	59	27	
Finchampstead Steeple -	131	46	55	25170
Cæsar's Camp -	24	45	26	44819
Shinfield Steeple -	23	27	39	
Finchampstead Steepl	85	40	40	62508
Cæsar's Camp -	72	51	55	65225
Henley Steeple -	21	27	29	
Cæsar's Camp -	25	14	50	65207
Wokingham Steeple -	144	58	30	48460
Henley Steeple -	9	46	40	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Bowsey Hill	18	0	0	27987
Nettlebed Windmill	28	42	44	17944
Rotherfield Greys Steeple	133	17	16	
Finchampstead Steeple	48	28	10	82000
Nettlebed Windmill	65	33	35	67427
Hedsor House	65	58	15	
Cæsar's Camp	25	16	0	33368
Bowsey Hill	35	14	12	24686
Windmill on White Waltham Common	119	29	48	
Finchampstead Steeple	22	50	0	30073
Wokingham Steeple	129	55	0	15215
Hurst Steeple	27	15	0	
Cæsar's Camp	116	59	54	22643
Finchampstead Steeple	30	31	52	39714
Warfield Steeple	32	28	14	
Cæsar's Camp	106	24	34	22657
Bagshot Heath	53	51	46	26912
Warfield Steeple	19	43	40	
Finchampstead Steeple	30	48	0	12495
Norris's Obelisk	18	25	0	20252
Yately Steeple	130	47	0	
Farnham Beacon	21	3	20	42806
Odiham Steeple	129	13	0	19845
Rotherwick Steeple	29	43	40	
Barrow on Hartford Bridge Flats	14	23	50	34963
Farnham Beacon	109	48	0	9238
Crondall Steeple	55	48	10	
Barrow on Hartford Bridge Flats	16	32	22	46566
Station near Ash	30	54	18	14469
The 34 mile stone on the Farnham Road	122	33	20	
Barrow on Hartford Bridge Flats	4	39	46	34316
Station near Ash	105	55	3	2901
Ash Steeple	69	25	11	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Finchampstead Steeple	45	22	20	34137
Farnham Beacon	44	43	28	34509
Frimley Chapel	89	54	12	
Tilney Hall	34	32	0	27506
Rooks Down	55	21	0	18954
Hackwood House	90	7	0	
Tilney Hall	42	0	0	11738
Rooks Down	17	39	0	25926
Basingstoke Town House	120	21	0	
Tilney Hall	61	46	40	15963
Rooks Down	28	31	0	29461
Farm near Five Lanes End	89	42	20	
Rooks Down	24	53	30	19288
Basingstoke Town House	125	18	0	9917
Basing Steeple	29	48	30	
Rooks Down	46	52	0	20489
Tilney Hall	37	35	0	24515
Bramley Steeple	95	33	0	
Finchampstead Steeple	135	28	20	68785
Farnham Beacon	26	19	0	108803
Dr. Breedon's Tower	18	12	40	
Finchampstead Steeple	61	30	24	68757
Bowsey Hill	71	46	16	63621
Dr. Breedon's Tower	46	43	20	
Hind Head	20	41	50	147372
Highclere	66	4	20	56983
Beenham Steeple	93	13	50	
Highclere	9	56	38	80169
Dr. Breedon's Tower	86	50	22	13855
Nunhide Pigeon House	83	13	0	
Farnham Beacon	37	0	50	49075
Odiham Steeple	111	45	30	31806
Highfield Park	31	13	40	

ART. XII. *Secondary Triangles for the Survey of Part of South Wales. Plate* XII.

The Distances serving as Base Lines for the following Triangles, will be found by referring to the 158th and three succeeding pages of the present volume.

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Precelly Top	53	1	30	49938
Brenin Fawr	79	0	30	40641
Barrow near Pantsyon	47	58	0	
Precelly Top	37	2	30	64712
Brenin Fawr	109	35	0	41376
Warren Bank, highest point	33	22	30	
Precelly Top	45	8	0	67142
Brenin Fawr	101	23	0	48542
Ferwig Steeple	33	29	0	
Precelly Top	56	55	15	58266
Brenin Fawr	83	0	45	49187
Rock near Trecoon Farm	40	4	0	
Brenin Fawr	30	35	0	41375
Barrow near Pantsyon	76	35	0	21642
Warren Bank	72	50	0	
Brenin Fawr	22	23	0	48566
Barrow near Pantsyon	102	59	30	18980
Ferwig Steeple	54	37	30	
Brenin Fawr	14	53	0	56401
Barrow near Pantsyon	133	45	0	20055
Cardigan Island, highest Point	31	22	0	
Brenin Fawr	36	52	30	15067
Barrow near Pantsyon	17	33	0	29984
Llanfihangel Penbedw Steeple	125	34	30	
Brenin Fawr	71	38	0	45933
Barrow near Pantsyon	59	1	30	50844
Foelary Barrow	49	20	30	
Brenin Fawr	50	37	0	46717
Barrow near Pantsyon	73	3	30	37746
Carnyngly Rock	56	19	30	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Brenin Fawr	76	10	30	15469
Barrow near Pantsyon	22	17	0	39898
Foel Dregarn	81	32	30	
Precelly Top	51	1	30	22289
Barrow near Pantsyon	25	49	30	39881
Foel Dregarn	103	9	0	
Precelly Top	70	30	45	58302
Nipple Rock	75	5	15	56878
Rock near Trecoon Farm	34	24	0	
Brenin Fawr	10	54	0	56352
Rock near Trecoon Farm	119	59	0	12302
Cardigan Island	49	7	0	
Rock near Trecoon Farm	22	46	0	22125
Cardigan Island	133	24	30	11786
Hill near Mount Church	23	49	30	
Warren Bank	76	24	0	26426
Barrow near Pantsyon	59	0	30	29962
Llanfihangel Penbedw	44	35	30	
Brenin Fawr	11	54	30	37231
Warren Bank	57	13	30	9137
Cardigan Steeple	110	52	0	
Brenin Fawr	20	27	0	27018
Rock near Trecoon Farm	21	34	30	25672
Cilgerran Castle	137	58	30	
Warren Bank	85	40	0	14714
Rock near Trecoon Farm	34	55	0	25632
Cilgerran Castle	59	25	0	
Warren Bank	24	12	0	22181
Barrow near Pantsyon	81	11	0	9201
Rock near Trecoon Farm	74	37	0	
Precelly Top	54	59	30	22328
Rock near Trecoon Farm	21	55	0	48997
Foel Dregarn	103	5	30	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Precelly Top	21	3	0	25330
Foel Dregarn	98	12	0	9192
Crigidwy	60	45	0	
Brenin Fawr	33	44	0	16125
Foel Dregarn	77	3	0	9188
Crigidwy	69	13	0	
Brenin Fawr	75	38	0	45911
Rock near Trecoon Farm	49	38	30	58366
Foelary Barrow	54	43	30	
Precelly Top	85	57	0	9752
Rock near Trecoon Farm	9	35	0	58429
Foelary Barrow	84	28	0	
Precelly Top	127	27	11	34055
Brenin Fawr	24	48	19	64440
Nipple Rock	27	44	30	
Nipple Rock	63	53	32	37148
Plumstone Down	40	9	31	51725
Pencarn, highest point	75	56	57	
Nipple Rock	77	27	0	13972
Pencarn	21	47	30	36737
Dinas Head, highest point	80	45	30	
Nipple Rock	98	20	0	13970
Brenin Fawr	11	44	45	67887
Dinas Head	69	55	15	
Nipple Rock	40	42	0	20857
Dinas Head	97	42	45	13725
Sunken Rock near Pendroway Head	41	35	15	
Nipple Rock	85	28	0	15974
Dinas Head	51	24	30	20374
Eastmost Chimney of Mr Mathias's House at Fishguard	43	7	30	
Nipple Rock	89	9	45	18055
Dinas Head	52	47	30	22667
Carnyngly Rock	38	2	45	
Dinas Head	18	7	30	28309
Carnyngly Rock	115	41	41	9773
Mr. Jones's Summer House	46	10	49	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distance in Feet.
Precelly Top	58	39	30	51418
Nipple Rock	80	30	30	44525
Trefgarn Rock	40	50	0	
Precelly Top	23	6	15	51449
St. Thomas Steeple	42	40	0	29788
Trefgarn Rock	114	13	45	
Precelly Top	57	5	45	132928
Highgate Mountain	71	2	10	118011
Ramsey Island, highest point	51	52	5	
Precelly Top	62	59	0	117223
Highgate Mountain	61	14	30	119124
Llaeithty Rock	55	46	30	
Plumstone Down	69	51	39	57701
Pencarn	59	30	36	62867
Llaeithty Rock	50	37	45	
St. Ann's Hill	6	56	48	83404
Llaeithty Rock	95	46	1	10139
Penberry Rock	77	17	11	
Llaeithty Rock	85	7	30	9530
Penberry Rock	45	30	30	13311
St. David's Cathedral	49	22	0	
Pencarn	8	24	0	64670
Llaeithty Rock	96	42	0	9512
St. David's Cathedral	74	54	0	
Pencarn	17	19	0	81862
St. David's Cathedral	118	57	15	27847
Highest point of the Northmost of the Bishop and his Clerks	43	43	45	
Penberry Rock	61	39	15	31530
St. David's Cathedral	93	25	15	27799
Bishop and his Clerks	24	55	30	
Plumstone Down	46	21	54	36546
Pencarn	44	53	47	37474
Old Windmill	88	44	19	
Precelly Top	46	32	0	21994
Nipple Rock	40	6	0	24782
Castle Baith Mountain, Barrow	93	22	0	

Names of Stations and intersected Objects	Angles for Calculation. °	′	″	Distances in Feet.
Trefgarn Rock -	32	3	0	30281
Nipple Rock -	40	26	0	24776
Castle Baith Mountain	107	31	0	
Precelly Top -	21	28	30	27866
Castle Baith Mountain -	111	6	10	10935
A Flat Barrow -	47	25	20	
Precelly Top - -	25	5	20	27846
Nipple Rock - -	53	5	30	14767
Flat Barrow - -	101	49	10	
Flat Barrow - -	109	48	40	31286
Castle Baith Mountain	53	48	20	36473
Priscilly Forest House -	16	23	0	
Precelly Top - -	11	58	0	82635
Laeithty Rock -	25	12	20	40233
Garn Rock - -	142	49	40	
Precelly Top - -	26	36	12	54358
Nipple Rock - -	137	4	45	82647
Garn Rock - -	16	18	43	
Plumstone Down -	66	40	15	51391
St. Thomas Steeple -	78	53	45	48090
Moat Steeple - -	34	26	0	
Plumstone Down -	85	31	1	10786
St. Thomas Steeple -	20	29	47	30714
Roch Castle - -	73	59	22	
Roch Castle - -	33	53	10	26276
St. Thomas Steeple -	58	46	30	17132
Rudbaxton Steeple -	88	20	20	
Plumstone Down -	33	11	47	19337
St. Thomas Steeple -	38	14	41	17104
Rudbaxton Steeple -	108	33	52	
Plumstone Down -	51	47	21	10785
Laeithty Rock -	9	25	43	51729
Roch Castle - -	118	46	56	
Laeithty Rock -	16	59	0	25998
Roch Castle - -	15	47	0	27918
Scrabs Island, highest point - -	147	14	0	
Laeithty Rock - -	26	24	43	26005
Plumstone Down -	18	35	0	36299
Scrabs Island - -	135	0	17	

Names of Stations and intersected objects.	Angles for Calculation °	′	″	Distances in Feet.
Laeithty Rock - -	40	11	40	62311
Plumstone Down -	75	53	45	41465
Talbenny Church -	63	54	35	
Roch Castle - -	93	18	19	31922
Laeithty Rock -	30	44	56	62333
Talbenny Church -	55	56	45	
Precelly Top - -	28	47	5	86337
Plumstone Down -	102	6	12	42518
Johnston Steeple -	49	6	43	
Plumstone Down -	19	57	50	29613
Johnston Steeple -	34	32	55	17828
St. Thomas Steeple -	125	29	15	
St. Thomas Steeple -	18	8	45	17834
Johnston Steeple -	81	5	45	5625
Boulton Beacon -	80	45	30	
Roch Castle - -	30	58	0	34679
St Thomas Steeple -	86	51	45	17871
Boulton Beacon -	62	10	15	
St. Ann's Hill -	112	5	30	16571
Milford Steeple -	21	44	0	41467
Green Mire Hill -	46	10	30	
St. Ann's Hill - -	106	51	45	16534
Hubberstone Steeple -	26	33	5	35398
Green Mire Hill -	46	35	10	
St. Ann's Hill -	124	13	10	4318
Green Mire Hill -	10	39	14	19314
St. Ann's Lighthouse -	45	7	36	
St. Ann's Hill -	31	49	30	30852
Green Mire Hill -	120	42	10	18921
High rock, near south extremity of Scomer Island	27	28	20	
Green Mrie Hill -	109	52	50	18860
St. Ann's Lighthouse -	34	34	54	31248
Scomer Island -	35	32	16	
Plumstone Down -	45	6	48	78249
St. Ann's Hill - -	75	25	24	57283
St. Daniel's Spire -	59	27	48	
Newton Down -	56	14	34	20428
Plumstone Down -	20	51	15	47[illegible]09
Lord Milford's Summer House - -	102	54	11	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Precelly Top	60 41 52	12883
Castle Baith Mountain	35 36 20	19296
Maenclochog Steeple	83 41 48	
St. Ann's Hill	35 19 22	26868
Sir H. Owen's Summer House	28 49 11	32229
Hubberstone Steeple	115 51 27	
St. Ann's Hill	26 40 38	34631
Sir H. Owen's Summer House	38 59 1	24715
Mr. Roch's Summer House	114 20 21	
St. Ann's Hill	93 44 2	4318
Sir H. Owen's Summer House	4 52 58	50621
St. Ann's Lighthouse	81 23 0	
St. Ann's Hill	5 27 10	53272
Sir H. Owen's S. House	119 35 36	5822
Highgate Mountain	54 57 14	
St. Ann's Hill	8 7 18	45255
Sir H. Owen's S. House	50 3 6	8321
Warren Spire	121 49 36	
St. Ann's Hill	1 46 34	56553
Sir H. Owen's S. House	164 36 45	6606
St. Petrox Steeple	13 36 41	
Sir H Owen's S. House	97 38 22	14418
St. Petrox Steeple	59 11 18	16638
Flimston Chapel	23 10 20	
Sir H. Owen's S. House	62 3 0	14376
St. Ann's Lighthouse	16 8 20	45684
Flimston Chapel	101 48 40	
Sir H. Owen's S. House	77 5 50	13391
Warren Spire	67 47 10	14099
Bosheston Steeple	35 7 0	
Sir H. Owen's S. House	60 16 0	13381
Flimston Chapel	56 16 0	13973
Bosheston Steeple	63 28 0	
Bosheston Steeple	103 48 10	6786
Flimston Chapel	22 54 40	17322
Lord Cawdor's Summer House	53 17 10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Flimston Chapel	45 1 40	16783
Sir H. Owen's S. House	77 56 50	12141
Lord Cawdor's Summer House with cupola	57 1 30	
Sir H. Owen's S. House	17 38 40	12162
Bosheston Steeple	64 1 20	4101
Summer House with cupola	98 20 0	
Hubberstone Steeple	72 52 32	16082
Green Mire Hill	26 37 20	34299
Old Windmill near Angle	80 30 8	
Sir H. Owen's S. House	29 30 30	50572
Hubberstone Steeple	69 32 0	16073
Old Windmill	80 57 30	
Newton Down	37 52 1	44097
Marros Beacon	36 38 46	45349
Whitewell Old Windmill	105 29 13	
Newton Down	64 55 39	44084
Highgate Mountain	77 37 47	40879
Whitewell Old Windmill	37 26 34	
Highgate Mountain	15 47 19	40931
Whitewell Old Windmill	82 22 1	11237
St. Florence Old Windmill	81 50 40	
Highgate Mountain	23 7 39	34590
St. Florence Old Windmill	56 7 30	16364
Middle Hill Old Windmill	100 44 51	
St. Florence Old Windmill	25 42 0	16358
Whitewell Old Windmill	116 17 0	7912
Middle Hill Old Windmill	38 1 0	
Newton Down	14 11 18	50604
Whitewell Old Windmill	111 50 17	13363
Old Windmill, Fire Beacon on its top	53 58 25	
St. Florence Old Windmill	63 59 20	13676
Whitewell Old Windmill	66 54 50	13361
Old Windmill	49 5 50	
St. Florence Old Windmill	23 55 52	6943
Whitewell Old Windmill	29 56 10	5643
St. Florence Steeple	126 7 48	

Names of Stations and intersected Objects.	Angles for Calculation	Distance in Feet.	Names of Stations and intersected Objects.	Angles for Calculation	
St. Florence Old Windmi	98 45 1	6929	Precelly Top	57 45 4	59194
Newton Down	10 12 1	38661	Plumstone Down	54 54 47	61181
St. Florence Steeple	71 2 3		Newton Steeple	67 20 9	
St. Florence Old Windmil	107 11	10992	Precelly Top	5 23 35	50690
Old Windmill Fire Beaco	31 49 1	19917	Newton Steeple	28 37 40	9944
Jeffreston Steeple	40 59 4		Robeston Wathen Steeple	145 58 45	
St. Florence Old Windmil	66 8 34	10989	Precelly Top	61 13 0	50634
Newton Down	17 9 28	34066	Trefgarn Rock	58 38 0	51974
Jeffreston Steeple	96 41 58		Robeston Wathen Steeple	60 9 0	
Jeffreston Steeple	79 31	24431	Robeston Wathen Steeple	108 25 50	6651
Old Windmill, Fire Beacon	57 13	28574	Newton Steeple	27 38 40	13599
Carew Beacon	43 16		Old Castle	43 55 30	
Jeffreston Steeple	38 32	24447	Precelly Top	5 5	45585
St. Florence Old Windmil	18 6 0	17265	Robeston Wathen Steeple	37 32 55	6630
Carew Beacon	23 22 0		Old Castle	137 21 58	
Jeffreston Steeple	62 59 15	6685	Robeston Wathen Steeple	71 54	21622
St. Florence Old Windmill	6 25 10	17454	Newton Steeple	81 4 40	20803
Loveston Steeple	10 35 35		Wiston Steeple	27 1 20	
Highgate Mountain	21 13 33	47342	Robeston Wathen Steeple	35 20 10	13802
St. Florence Old Windmill	00 33 50	17436	Newton Steeple	99 21 30	8091
Loveston Steeple	58 12 37		Old House	45 18 20	
St. Florence Old Windmill	39 34 20	30689	Precelly Top	13 4 37	62125
Highgate Mountain	17 11 56	67303	Robeston Wathen Steeple	125 1 30	17165
Ludchurch Steeple	23 13 44		Minwear Steeple	41 53 53	
Highgate Mountain	44 38 32	67334	Precelly Top	8 13 30	62131
Newton Down	13 23 41	51552	Newton Down	21 55 12	23810
Ludchurch Steeple	21 57 47		Minwear Steeple	149 51 18	
Highgate Mountain	13 27 48	67317	Precelly Top	43 40	15974
Marros Beacon	43 51 37	22619	Maenclochog Steeple	83 4 0	11111
Ludchurch Steeple	22 40 45		Llangolman Church	53 16	
St. Florence Old Windmill	33 56 10	16632	Precelly Top	80 11 40	31754
Jeffreston Steeple	06 49 45	9700	Roch Castle	23 30 58	78419
Begeley Steeple	39 14 35		Llandissilio Church	76 17 22	
St. Florence Old Windmill	140 55 10	16639	Precelly Top	92 10 15	31738
Highgate Mountain	11 1 22	54863	Castle Baith Mountain	53 49 8	39293
Begeley Steeple	28 3 28		Llandissilio Church	34 0 37	
Precelly Top	53 18 0	116617	New Inn Hill	53 24 5	90602
Lanton	46 45 50	128338	Capel Kynon	83 13 53	73249
Wool House, Caldy Island	79 56 8		Brenin Fawr	43 22 2	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Precelly Top - -	14 9 30	37785	Quarry Pile - -	93 36 15	9692
Capel Kynon - -	7 14 55	73256	Moelfre Barrow -	11 58 48	46600
Brenin Fawr - -	158 35 35		Blaenporth Church -	74 24 57	
Talsarn - -	40 7 7	138225	Quarry Pile - -	140 35 45	9674
New Inn Hill -	100 32 45	90599	Pile on the Moor -	10 59 48	32193
Brenin Fawr - -	39 20 8		Blaenporth Church -	28 24 27	
Brenin Fawr - -	110 27 0	40616	Quarry Pile - -	47 0 10	24126
Rock near Trecoon Farm	30 59 0	73926	Moelfre Barrow -	31 50 17	33450
Moelfre Barrow -	38 34 0		Pile on the Moor -	101 9 33	
Capel Kynon - -	40 7 53	26729	Capel Kynon - -	26 59 16	52158
Brenin Fawr - -	18 3 57	55555	Moelfre Barrow - -	90 40 45	23671
Pile on a Stone Quarry near Bettws Einon	121 4[illegible] 10		Middle of Three Barrows on Newcastle Mountain	62 19 30	
Brenin Fawr -	52 53 42	40605	Pile on the Moor -	34 15 50	41963
Quarry Pile - -	46 11 48	44872	Moelfre Barrow -	92 57 58	23652
Moelfre Barrow - -	80 54 30		Middle Barrow -	52 46 12	
Brenin Fawr -	34 52 8	40571	Pile on the Moor - -	19 27 25	31378
Capel Kynon -	30 7 52	46205	Moelfre Barrow -	69 42 17	11144
Moelfre Barrow - -	115 0 0		Penboir Church -	90 50 18	
Capel Kynon -	105 53 56	23476	Capel Kynon - -	13 49 7	43156
Brenin Fawr - -	15 49 12	82820	Moelfre Barrow -	67 25 40	11163
Pile on Llandissilio Head	58 16 52		Penboir Church -	98 45 13	
Capel Kynon - -	65 45 36	23519	Moelfre Barrow -	81 51 0	6820
Quarry Pile - -	51 28 30	27411	Middle Barrow -	16 34 0	23677
Llandissilio Head - -	62 45 54		Crug-moch - -	81 35 0	
Quarry Pile - -	75 37 40	26735	Moelfre Barrow -	72 28 0	6811
Moelfre Barrow -	34 6 40	46180	Brenin Fawr - -	9 34 0	39088
Capel Kynon -	70 15 40		Crug-moch - -	97 58 0	
Moelfre Barrow -	31 17 33	38865	Crug-moch - -	75 50 10	9818
Capel Kynon - -	57 15 0	24002	Brenin Fawr - -	14 32 50	37901
Bettws Einon - -	91 37 27		Cru[illegible]wan - -	89 37 0	
Capel Kynon - -	13 0 15	24008	Middl[illegible]rrow -	19 59 30	27834
Quarry Pile - -	58 16 33	6351	Crug-moch - -	104 36 30	9834
Bettws Einon - -	108 43 12		Crug-wan - -	55 24 0	
Capel Kynon - -	64 20 0	12825	Crug-moch - -	21 9 27	35632
Quarry Pile - -	28 37 30	24127	Brenin Fawr - -	65 30 48	14132
Pile on the Moor right of the road to Capel Kynon	87 2 30		Kilwendague House, centre Pediment - -	93 19 45	
Capel Kynon - -	51 28 0	12818	Brenin Fawr - -	5[illegible] 48	14132
Bettws Einon - -	32 2 0	18869	Moelfre Barrow - -	19 42 37	34711
Pile on the Moor -	96 38 0		Kilw[illegible]ndague - -	104 20 35	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Brenin Fawr - -	47	10	37	17669
Crug-moch - -	25	34	32	30020
Chimney in the centre of Finone House -	107	14	51	
Brenin Fawr -	44	39	27	7527
Finone - -	23	14	48	13403
Brenin Fach - -	112	5	45	
Brenin Fawr - -	128	30	6	7519
Craig y dwy -	15	47	35	21622
Brenin Fach - -	35	42	19	
Brenin Fawr - -	18	10	13	56392
Quarry Pile - -	83	35	30	17696
Alderbrook Hall, centre Pediment -	78	14	17	
Brenin Fawr -	41	46	22	7530
Alderbrook Hall -	5	38	31	51021
Brenin Fach - -	132	35	7	
Brenin Fawr - -	51	31	30	33635
Crug-moch - -	55	24	22	31988
Llanwinio Church -	73	4	8	
Brenin Fawr - -	36	59	7	33617
Crug-wan - -	61	21	15	23045
Llanwinio Church -	81	39	38	
Brenin Fawr - -	74	30	0	16113
Llanwinio Church -	27	54	23	33174
Craig y dwy - -	77	37	37	
Crug-moch - -	44	39	50	13674
Crug-wan - -	89	24	0	9613
Post Gwyn Direction-post	45	56	10	
Capel Kynon - -	65	18	30	26991
Middle Barrow -	30	57	30	47674
Pen Voel Hadog -	83	44	0	
Capel Kynon - -	98	13	17	12883
Pen Voel Hadog -	23	45	45	31496
Pile on the Moor -	58	0	58	
Capel Kynon -	31	4	0	27514
Middle Barrow -	26	29	21	37827
Intrenchment on Pen Coed Voel -	122	25	23	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Capel Kynon -	34	14	0	27561
Pen Voel Hadog -	74	49	0	16054
Pen Coed Voel -	70	57	0	
New Inn Hill -	47	4	22	89253
Capel Kynon -	88	22	0	65381
Talsarn Barrow -	44	33	38	
New Inn Hill - -	76	28	48	27044
Capel Kynon -	25	1	27	62163
Crug-edrid - -	78	29	45	
Capel Kynon - -	63	22	30	62198
Talsarn Barrow -	55	59	53	67070
Crug-edrid - -	60	37	37	
New Inn Hill - -	65	32	40	14003
Capel Kynon - -	12	38	13	58265
Crug-gair - -	101	49	7	
Capel Kynon - -	12	21	31	58266
Crug-edrid - -	67	7	22	13535
Crug-gair - -	100	31	7	
Capel Kynon - -	46	22	45	74139
Talsarn Barrow -	75	9	0	55525
Shepherd's Pen - -	58	28	30	
Talsarn Barrow - -	13	21	38	56028
Crug-edrid - -	45	52	19	18037
Largest Carn on the summit of Rhyd y bont Mountain - -	120	46	3	
Talsarn Barrow -	5	47	29	56014
Shepherd's Pen -	92	3	32	5656
Rhyd y bont Mountain	82	9	0	
Capel Kynon - -	39	59	30	44449
Shepherd's Pen -	35	28	30	49227
Pen y Voel Dyhewydd	104	32	0	
Talsarn Barrow -	62	6	46	21777
Shepherd's Pen -	23	0	7	49257
Pen y Voel Dyhewydd	94	53	7	
Pen y Voel Dyhewydd	111	46	0	39474
Talsarn Barrow -	45	11	32	51672
Centre Pediment of a House - -	23	2	28	

Names of Stations and intersected Objects.	Angles for Calculation ° ′ ″	Distances in Feet.
Talsarn Barrow - -	42 47 14	18285
House, Centre Pediment	17 59 1	40221
Moelfre Hill - -	119 13 45	
Pen y Voel Dyherwydd	99 20 45	3629
House, Centre Pediment	5 6 23	40220
Moelfre Hill -	75 33 52	
Pen y Voel Dyherwydd	81 49 0	5048
Moelfre Hill -	59 46 3	5783
Dyherwydd Belfry - -	38 24 30	
Rhyd y bont Mountain	57 55 52	27944
Crug edrid -	82 18 0	23894
Llanwenog Church -	39 46 0	
Rhyd y bont Mountain	144 59 52	5668
Llanwenog Church -	5 41 53	32750
Shepherd's Pen -	29 18 15	
Rhyd y bont Mountain	31 32 4	34216
Crug-edrid - -	121 52 11	21072
Llaniwny Church Tower	26 35 45	
Rhyd y bont Mountain	22 28 26	9739
Shepherd's Pen -	131 48 48	4995
Chimney of Cottage on a Hill - - -	25 42 46	
Crug-edrid - -	102 41 52	23892
New Inn Hill - -	35 49 8	39829
Llanwenog Church Tower	41 29 0	
Crug-edrid - -	39 33 41	21069
Llanwenog Church Tower	60 18 58	15440
Llaniwny Church Tower	80 7 21	
Llanwenog Church Tower	108 54 58	13619
Llaniwny Church Tower	32 58 [illegible]	2[illegible]074
Pencarreg Belfry -	38 6 48	
Llanwenog Church Tower	46 23 6	8169
Llaniwny Church Tower	31 5 21	11450
Highmead House, eastmost Chimney -	102 38 53	
Lannon - - -	57 30 45	62622
New Inn Hill - -	46 8 11	73263
Barrow on Llangynog Mountain - -	76 21 8	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Lannon - -	42 19 27	62600
Wool House -	27 11 37	92233
Llangynog Mountain	110 28 56	
Llannon - -	81 24 52	62588
Worms Head - -	41 31 8	93362
Llangynog Mountain -	57 4 0	
New Inn Hill - -	48 30 47	73271
Precelly Top -	35 10 13	95290
Llangynog Mountain	96 19 0	
Llangynog Mountain	42 56 41	42777
Precelly Top - -	24 29 28	70302
Station in a hedge near the five mile stone from St. Clare - -	112 33 51	
Marros Beacon - -	148 5 15	17805
Tenby Spire -	10 54 41	49722
Station in Hedge -	21 0 4	
Precelly Top - -	8 34 0	70302
Marros Beacon -	35 56 30	17841
Station in a Hedge -	135 29 30	
Precelly Top -	8 27 15	10630
Station in Hedge -	68 2 0	67054
West Chimney of Tavernspite Inn - -	103 30 45	
Marros Beacon -	35 30 22	16918
Station in Hedge -	67 28 0	10638
Tavernspite Inn -	77 1 38	
Llangynog Mountain -	22 7 33	15257
Station in Hedge -	11 27 33	28925
Llanfihangel Abercowyn Church - -	146 24 54	
Llangynog Mountain -	99 16 45	30924
New Inn Hill - -	21 18 18	84000
Barrow on Llansaint Hill	59 24 57	
Llangynog Mountain -	22 55 52	30887
Lannon Station -	19 24 46	36208
Barrow on Llansaint Hill	137 39 22	
Llangynog Mountain -	87 33 15	30910
Wool House, Caldy Isle	18 45 42	96016
Barrow on Llansaint Hill	73 41 3	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Llangynog Mountain	33	11	30	19137
Llansaint Hill - -	35	8	33	18201
Llanstephan Castle, high square Turret -	111	39	57	
Llansaint Hill -	51	43	0	22745
Lannon Station -	38	54	53	28423
Penbree Hill - -	89	22	7	
Llangynog Mountain -	26	53	19	53465
Lannon Station -	58	20	26	28407
Penbree Hill - -	94	46	15	
Lannon Station -	27	15	20	28384
Kidwelly Spire -	52	7	3	16470
Penbree Hill - -	100	37	37	
Lannon Station -	78	36	41	37436
Llangynog Mountain -	33	37	0	66288
Nelson's Tower -	67	46	19	
Lannon Station -	98	2	45	37432
Llansaint Hill -	41	48	15	55600
Nelson's Tower -	40	9	0	
Llangynog Mountain -	60	30	18	66316
Penbree Hill - -	70	9	52	61375
Nelson's Tower -	49	19	50	
Marros Beacon -	127	47	30	17825
Worms Head - -	8	1	23	100925
Station in Hedge -	44	11	7	
Worms Head - -	14	29	51	82371
Station in Hedge -	44	14	9	29559
Laugharne Church Tower	121	16	0	
Llansaint Hill -	99	33	7	7471
Penbree Hill - -	17	6	30	25044
Llansaint Steeple -	63	20	23	
Llangynog Mountain -	13	56	57	29339
Llansaint Hill -	71	4	45	7479
Llansaint Steeple -	94	58	18	
Lannon Station -	45	8	7	20321
Nelson's Tower -	31	56	42	27222
Mancha Hill - -	102	55	11	
Lannon Station -	52	53	41	20317
Llansaint Hill - -	34	4	49	28917
Mancha Hill - -	93	1	30	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Llansaint Hill - -	103	34	33	28897
Llangynog Mountain -	36	42	12	47000
Mancha Hill - -	39	43	15	
New Inn Hill -	15	21	53	48475
Llangynog Mountain	25	49	37	39482
Barrow on the high land between Abernant and Cyn Wyl Elvet -	138	48	30	
Llangynog Mountain	88	24	10	29435
Mancha Hill - -	32	30	13	54756
Barrow between Abernant and Cyn Wyl Elvet -	59	5	37	
New Inn Hill - -	29	22	13	39461
Barrow near Cyn Wyl	53	57	7	23937
Barrow at the entrance of the Moor, and close to the Road from Caermarthen to Newcastle in Emlyn - -	96	40	40	
New Inn Hill -	44	44	6	39464
Llangynog Mountain -	31	32	47	53089
Moor-Barrow -	103	43	7	
Llansaint Hill -	15	26	18	23357
Mancha Hill - -	44	12	0	8918
Llangendeirne Church -	120	21	42	
Llangendeirne Church	44	13	48	17675
Mancha Hill - -	106	54	26	12887
Llandarrog Church -	28	51	46	
Llansaint Hill - -	8	47	55	40650
Mancha Hill - -	151	6	7	12867
Llandarrog Church -	20	5	58	
Crug-edrid - -	26	34	33	[illegible]706
New Inn Hill - -	111	35	47	18142
Brechva Mountain, highest Point - -	41	49	40	
New Inn Hill - -	78	56	26	18137
Barrow near Cyn Wyl	21	35	37	48368
Brechva Mountain -	79	27	57	
Mancha Hill - -	54	33	39	50395
Barrow near Cyn Wyl	58	7	21	48351
Brechva Mountain -	67	19	0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Mancha Hill - -	37 15 7	27230
Brechva Mountain -	29 51 8	33114
Nelson's Tower -	112 53 45	
Crug-edrid - -	84 16 41	32976
Brechva Mountain -	43 37 57	47551
Dinas Rock, highest Point	52 5 22	
Brechva Mountain -	45 44 34	67092
Dinas Rock - -	89 7 49	48058
Trecbrig Mountain -	45 7 37	
Dinas Rock - -	98 26 0	31812
Trecbrig Mountain -	30 49 53	61398
Cyn y Gaio Barrow -	50 44 7	
Crug-edrid - -	64 7 42	17991
Dinas Rock - -	32 47 33	29889
Rhydybont Mountain -	83 4 45	
Crug-edrid -	88 48 25	45257
Brechva Mountain -	50 54 50	58306
Ruins of Sir Nicholas's Tower - -	40 16 45	
Dinas Rock - -	130 52 26	12795
Rhydybont Mountain	14 7 7	39295
Sir Nicholas's Tower	35 0 52	
Dinas Rock - -	106 56 37	24412
Sir Nicholas's Tower -	49 43 11	30612
Large Stone on Llanycrwys Mountain - -	23 20 12	
Sir Nicholas's Tower	14 42 20	39318
Llanycrwys Mountain	126 38 55	12413
Rhydybont Mountain -	38 38 45	
Rhydybont Mountain -	135 50 22	12448
Crug-edrid - -	17 50 30	28304
Llanycrwys Mountain -	26 19 8	
Rhydybont Mountain -	21 13 30	5665
Llanycrwys Mountain	15 56 7	7470
Shepherds Pen on Pen-carreg Mountain -	142 50 23	
Dinas Rock - -	98 0 0	10431
Sir Nicholas's Tower	36 10 15	17501
Barrow on Talley Mountain	45 49 45	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Rhydybont Mountain	26 11 22	37620
Sir Nicholas's Tower -	71 11 30	17529
Talley Barrow -	82 37 8	
Dinas Rock - -	43 19 21	12676
Cyn y Gaio Mountain	21 3 24	24207
Sir Nicholas's Tower -	115 37 15	
Dinas Rock -	111 24 18	3038
Cyn y Gaio Mountain -	4 54 35	33043
Llansowel Church Tower	63 41 7	
Nelson's Tower -	42 52 0	38582
Mancha Hill -	92 17 10	26268
Station near Mount Pleasant - -	44 50 50	
Nelson's Tower -	34 39 0	38589
Llansaint Hill -	42 36 23	32410
Mount Pleasant Station -	102 44 37	
Nelson's Tower -	11 43 15	42756
Mount Pleasant Station	110 39 30	9282
Centre Chimney of Penlan House - -	57 37 15	
Mancha Hill - -	85 59 7	34942
Nelson's Tower -	54 35 15	42770
Penlan House -	39 25 38	
Mount Pleasant Station	95 9 0	15292
Mancha Hill -	28 51 20	31559
Llangain Church -	55 59 40	
Mount Pleasant Station	51 26 15	12112
Mancha Hill - -	26 50 53	20976
Llan House, centre Chimn.	101 42 52	
Llansaint Hill -	128 44 23	10017
Penbree Hill - -	15 4 19	30048
Llandevaelog Church -	36 11 18	
Mount Pleasant Station	157 20 15	9574
Mancha Hill - -	5 59 57	35296
House, West end of Caermarthen - -	16 39 48	
Mancha Hill - -	26 1 48	35284
Llangynog Mountain -	45 21 7	21764
House, &c. - -	108 37 5	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Llangynog Mountain -	88 14 30	23198
Precelly Top - -	13 46 30	97379
Sir John's Hill House	77 59 0	
Llangynog Mountain -	156 54 3	29522
Nelson's Tower -	7 3 52	94152
Llanginning Steeple -	16 2 5	
Llangynog Mountain -	70 23 3	29527
Sir John's Hill House -	64 28 5	30823
Llanginning Steeple -	45 8 52	
Mount Pleasant Station	50 49 0	8926
Nelson's Tower -	11 51 33	33666
Aberguili Church -	117 19 27	
Nelson's Tower -	154 43 7	17302
Llangynog Mountain -	5 9 0	82317
Llangathen Church -	20 7 53	
Nelson's Tower -	77 38 3	17295
Brechva Mountain -	29 52 12	33921
Llangathen Church -	72 29 45	
Nelson's Tower -	93 52 40	16814
Mancha Hill -	30 35 58	32958
Pile on the Great Mount.	55 31 22	
Lannon Station -	26 41 0	33048
Nelson's Tower -	61 57 0	16816
Great Mountain - -	91 22 0	
Lannon Station -	95 40 22	36204
Cefn Bryn -	28 36 8	75255
Llansaint Hill -	55 43 30	
Lannon Station -	113 7 49	62499
Trecastle, old Station -	22 56 12	147480
Cefn Bryn -	43 55 59	
Mancha Hill -	82 19 22	28512
Llangynog Mountain -	33 11 3	51627
Highest Point of Hill near Alt y Gog - -	64 29 [illegible]5	
Mancha Hill -	50 17 [illegible]	28493
Mount Pleasant Station	69 48 22	[illegible]3353
Hill near Alt y Gog -	59 54 35	
Margam Down -	33 16 55	19616
Kilvey Hill Windmill -	17 24 12	35990
Voel Vawr Barrow -	129 18 53	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Margam Down - -	24 28 21	60771
Kilvey Windmill -	100 17 22	25586
Mumbles Lighthouse	55 14 17	
Kilvey Windmill -	93 33 30	81696
Margam Down -	55 36 33	98810
Carreg Glwydd -	30 49 57	
Margam Down -	80 5 15	98795
Mumbles Lighthouse -	65 47 13	106707
Carreg Glwydd -	34 7 32	
Kilvey Windmill -	18 31 30	51293
Carreg Glwydd - -	26 14 22	36860
Roman Camp on Bettws Mountain - -	135 14 8	
Kilvey Windmill -	106 30 23	75077
Margam Down -	44 57 52	101802
Tre Carn Issa Centre Karn	28 31 45	
Kilvey Windmill -	12 57 15	75084
Carreg Glwydd -	63 8 38	18808
Tre Carn Issa -	103 54 7	
Margam Down -	71 39 22	108933
Kilvey Windmill -	80 57 22	104698
New Station on Trecastle Beacon - -	27 23 16	
Kilvey Windmill -	12 35 23	104678
Carreg Glwydd -	131 53 20	30649
Trecastle Beacon - -	35 31 15	
Kilvey Windmill -	25 32 53	104695
Tre Carn Issa -	113 13 40	49112
Trecastle Beacon -	41 13 27	
Kilvey Windmill -	26 19 3	41598
Roman Camp -	52 47 8	23158
Llanguke Church -	100 53 49	
Kilvey Windmill -	8 33 0	45627
Roman Camp - -	47 42 0	9171
White House -	123 45 0	
Carreg Glwydd - -	102 35 15	21294
Trecastle Beacon -	30 28 37	40962
Eastmost Carn on Trecherig Mountain -	46 53 41	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Trecastle Beacon	24 46 2	40981
Tre Carn Issa	55 16 43	20888
Trechrig Mountain	99 56 15	
Carreg Glwydd	62 21 56	21326
Tre Carn Issa	64 35 30	20917
Trechrig Mountain	53 2 34	
Kilvey Windmill	136 29 22	39448
Margam Down	18 53 41	83870
Cefn Bryn, near Pont ar Dulas	24 36 57	
Kilvey Windmill	119 5 30	39421
Voul Vawr	31 59 11	65030
Cefn Bryn P.	28 5[illegible] 19	
Kilvey Windmill	80 32 15	53503
Cefn Bryn P.	59 51 45	61024
Cefn Bryn Station	39 36 0	
Cefn Bryn P.	75 38 40	35507
Cefn Bryn	33 22 25	62531
Lannon Station	70 58 55	
Trechrig Mountain	64 21 30	46023
Trecastle Beacon	63 5 30	46633
St. Mary on the Hill Steeple, Llandovery	52 33 0	
Trechrig Mountain	48 7 0	39999
Carreg Glwydd	100 16 0	30264
Barrow on the Van	31 37 0	
Trechrig Mountain	1 12 40	39964
Trecastle Beacon	39 42 10	1322
Barrow on the Van	139 5 10	
Trechrig Mountain	14 20 37	25788
Barrow on the Van	23 3 56	16306
Llandeveysant Church	142 35 27	
Trechrig Mountain	14 38 47	26951
Trecastle Beacon	24 35 [illegible]	16381
Westmost Barrow on Carn-glass	140 46 1[illegible]	
Trechrig Mountain	32 14 18	26958
Carreg Glwydd	95 54 30	14453
Westmost Barrow	51 51 12	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Trechrig Mountain	64 13 7	15470
Trecastle Beacon	22 8 15	36968
Voel y Vraith	93 38 38	
Trechrig Mountain	17 19 26	15491
Carreg Glwydd	35 16 15	7988
Voel y Vraith	127 24 19	
Carreg Glwydd	36 54 16	18863
Roman Camp	27 28 51	24546
Tre Carn Issa	115 36 53	
Cefn Bryn	89 49 35	32113
Lannon Station	27 13 11	70208
Barrow on Rosilly Mount.	62 57 14	
Lannon Station	68 27 15	70236
Llansaint Hill	80 56 11	66147
Rosilly Barrow	30 36 34	
Cefn Bryn	73 0 15	12553
Rosilly Barrow	22 53 0	30874
West Chimney of House on Oxwich Point	84 6 45	
Cefn Bryn	63 37 32	28359
Lannon Station	26 58 4	56026
East Signal Staff on Lanmadoc Hill	89 24 24	
Cefn Bryn	26 12 0	28351
Rosilly Barrow	61 55 54	14186
East Signal Staff	91 52 6	
Lannon Station	68 42 22	56014
Llainsaint Hill	73 5 11	54550
East Signal Staff	38 12 27	
Cefn Bryn	67 52 45	31061
Lannon Station	29 30 41	58414
West Signal Staff on Lanmadoc Hill	82 36 34	
Cefn Bryn	21 57 37	31047
Rosilly Barrow	74 2 45	12075
West Signal Staff	83 59 38	
Lannon Station	66 9 45	58410
Llansaint Hill	76 43 26	54894
West Signal Staff	37 0 49	

Names of Stations and intersected Objects	Angles for Calculation.			Distances in Feet.
	°	′	″	
Cefn Bryn - -	44	47	59	2467
Rosilly Barrow -	3	16	33	30421
Nicholaston Church -	131	56	28	
Cefn Bryn -	22	0	45	8773
Rosilly Barrow -	7	48	30	24204
Penrice Steeple -	150	10	45	
Lannon Station -	42	23	52	51617
Penbree Hill - -	105	33	52	36124
East Turret of Webley House - -	32	2	16	
Lannon Station -	85	20	33	51582
Cefn Bryn P. - -	58	39	4	60199
Webley House -	36	0	23	
Lannon Station - -	49	12	22	52094
Penbree Hill - -	98	6	11	39836
Llanridian Steeple -	32	41	27	
Cefn Bryn - -	54	28	37	49768
Rosilly Barrow -	85	29	15	40632
Penbree Steeple - -	40	2	8	
Cefn Bryn - -	85	5	0	38112
Rosilly Barrow -	52	46	34	47686
Llanelly Steeple -	42	8	26	
Cefn Bryn - -	30	36	34	38154
Penbree Steeple -	48	55	47	25770
Llanelly Steeple -	100	27	39	
Cefn Bryn - -	77	42	37	38135
Kilvey Windmill -	39	23	8	58721
Llanelly Steeple -	62	54	15	
Lannon Station - -	43	31	55	36059
Cefn Bryn P. - -	69	20	25	26543
Loughor Glass Work -	67	7	40	
Lannon Station -	54	39	33	36092
Rosilly Barrow - -	30	49	19	57460
Glass Work - -	94	31	8	
Cefn Bryn P. - -	27	19	[illegible]	41879
Cefn Bryn - -	38	52	6	30561
Machynis, West Chimney	113	52	39	
Cefn Bryn - -	84	20	5	30551
Rosilly Barrow -	46	15	22	42083
Machynis - -	49	24	33	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″	
Cefn Bryn P. -	58	54	59	20852
Cefn Bryn - -	19	33	43	53336
Llangevelach Steeple -	101	31	18	
Lannon Station -	54	26	32	52210
Cefn Bryn - -	52	56	54	53304
Llangevelach Steeple -	72	37	24	
Llangevelach Steeple	14	25	31	19522
Cefn Bryn P. - -	68	11	37	5238
Barrow on Green Hill	97	22	52	
Cefn Bryn P. -	67	14	26	5235
Kilvey Windmill -	7	21	14	37719
Barrow on Green Hill -	105	24	20	
Cefn Bryn P. - -	24	15	22	12242
Barrow on Green Hill -	139	40	33	7772
Barrow on the Moor -	16	4	5	
Margam Down - -	21	25	15	80066
Kilvey Windmill -	129	8	8	37699
Barrow on Green Hill	29	26	37	
Margam Down -	34	11	18	80046
Carreg Glwydd -	54	4	32	55544
Barrow on Green Hill	91	44	10	
Carreg Glwydd -	20	4	0	86831
Kilvey Windmill - -	89	43	7	29793
Signal Staff - -	70	11	43	
Carreg Glwydd -	43	18	35	86807
Barrow on Green Hill	97	17	40	60031
Signal Staff - -	39	23	45	
Carreg Glwyd -	33	42	49	86035
Margam Down -	60	18	3	54975
Swansea Castle -	85	59	8	
Kilvey Windmill -	132	0	48	6052
Margam Down -	4	41	30	54976
Swansea Castle -	43	17	42	
Margam Down -	11	12	37	57078
Kilvey Windmill -	115	18	41	12275
Moriston Steeple - -	53	28	42	
Margam Down - -	23	32	36	80056
Tre Carn Issa -	48	19	16	42815
Barrow on Green Hill -	108	8	8	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Barrow on Green Hill -	104 1 46	5236
Dinas Hill - -	6 43 53	43338
Cefn Bryn P. - -	69 14 21	
Tre Carn Issa - -	77 18 48	9617
Barrow on Green Hill -	12 58 50	41770
Dinas Hill - -	89 42 22	
Cefn Bryn P. - -	80 13 27	28697
Dinas Hill - -	36 19 26	47743
Lannon Steeple -	63 27 7	
Cefn Bryn P. - -	83 26 0	28675
Cefn Bryn - -	26 15 28	64388
Lannon Steeple -	70 18 32	
Carreg Glwydd -	79 57 2	72820
Margam Down - -	39 47 18	112043
Lannon Steeple -	60 15 40	
Trechrig Mountain -	23 51 52	23660
Tre Carn Issa - -	94 23 34	9601
Dinas Hill - -	61 44 34	
Tre Carn Issa -	85 24 4	9610
Roman Camp -	21 56 40	25692
Dinas Hill - -	72 39 16	
Cefn Bryn P. - -	101 52 47	12297
Dinas Hill - -	14 42 0	47442
Forest Hall, long Chimney	63 25 13	
Barrow, Green Hill -	97 49 8	17493
Dinas Hill - - -	21 25 53	47429
Forest Hall - -	60 44 59	
Tre Carn Issa - -	30 48 52	17342
Dinas Hill - -	120 44 56	10349
Glenhairn Barn -	28 26 12	
Tre Carn Issa -	20 43 0	22014
Dinas Hill - -	144 39 30	13462
Llandabie Steeple -	14 37 30	
Dinas Hill - -	23 54 34	13509
Glenhairn Barn -	110 11 19	5834
Llandabie Steeple -	45 54 7	
Tre Carn Issa - -	69 56 44	34424
Roman Camp -	68 29 40	34757
Pile on Great Mountain	41 33 36	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″	
Dinas Hill - -	86 4 44	25350
Roman Camp - -	46 33 0	31757
Pile on Great Mountain	47 22 16	
Great Mountain Pile -	19 49 19	51754
Tre Carn Issa -	129 8 45	22643
Cottage near a Plantation	31 1 56	
Carreg Glwydd - -	71 23 0	19889
Tre Carn Issa - -	56 24 45	22627
Cottage - -	52 12 15	
Great Mountain Pile -	25 21 3	45943
Tre Carn Issa -	109 50 52	20911
Trechrig Mountain -	44 49 25	
Dinas Hill - -	64 32 11	7180
Tre Carn Issa -	44 49 33	9196
Carreg Cennen Castle, highest Turret -	70 38 16	
Trechrig Mountain -	25 6 52	16495
Tre Carn Issa - -	48 34 56	9200
Carreg Cennen Castle	105 18 12	
Great Mountain -	125 18 55	45451
Dinas Hill - -	35 41 38	63566
House Highest, and on the South Side of Brechva Mountain - -	18 59 27	
Great Mountain -	108 1 37	16837
Trechrig Mountain -	17 22 45	53601
Nelson's Tower -	54 35 38	
Great Mountain -	14 5 41	58725
Trechrig Mountain -	127 36 0	18051
Llangadock Steeple -	38 18 7	
Trechrig Mountain -	110 13 15	18075
Nelson's Tower -	15 49 15	62206
Llangadock Steeple -	53 57 15	
Nelson's Tower -	70 59 0	5711
Brechva Mountain -	9 48 0	31721
Dryslwyn Castle - -	99 13 0	
Nelson's Tower -	79 17 52	4268
Dryslwyn Castle -	40 27 0	6464
Llanarthney Steeple -	60 13 30	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Trechrig Mountain -	4 15 30	54997
Nelson's Tower -	126 56 45	4269
Llanarthney Steeple -	68 47 45	
Nelson's Tower -	49 5 22	6811
Lannon Station -	8 52 18	33377
Centre of Middleton Hall	122 2 20	
Nelson's Tower -	87 15 45	6781
Llanarthney Steeple -	59 47 0	7838
Middleton Hall -	32 57 15	
Nelson's Tower -	21 28 37	1162[illegible]
Dryslwn Castle -	140 11 3	6645
Belfry of Meeting House at Cross Inn -	18 20 20	
Great Mountain -	7 41 45	39134
Trechrig Mountain -	36 11 50	8874
Carn y Ceggin -	136 6 25	
Llangadock Steeple -	25 54 45	20324
Trechrig Mountain -	91 24 30	8885
Carn y Ceggin -	62 40 45	
Trechrig Mountain -	71 27 30	23875
Great Mountain -	30 33 0	44532
Taliaris Pigeon House	77 59 30	
Carn y Ceggin -	96 15 0	17388
Great Mountain -	22 50 45	44520
Taliaris Pigeon House	60 54 15	
Trechrig Mountain -	46 37 4	23275
Taliaris Pigeon House	64 59 56	18665
Llandilo Steeple -	68 23 0	
Carn y Ceggin -	70 34 30	14733
Taliaris Pigeon House	48 3 0	18682
Llandilo Steeple -	61 22 30	
Carn y Ceggin -	13 2 40	14242
Llandilo Steeple -	75 3 15	3327
Cupola on Tregib House	91 54 5	
Nelson's Tower -	10 47 36	70831
Trechrig Mountain -	140 17 0	20769
Mandinam Hill -	28 55 4	
Trechrig Mountain -	30 3 30	20753
Llangadock Steeple -	89 26 37	10395
Mandinam Hill -	60 29 53	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Trechrig Mountain -	47 52 30	1[illegible]405
Llangadock Steeple -	67 16 22	14800
East Chimney of a House on Myddvai Mountain	64 51 8	
Llangadock Steeple -	121 15 0	14800
Nelson's Tower -	10 15 45	71020
Chimney of House -	48 29 15	
Garth - -	51 48 0	58078
Ogmoor Down -	48 49 1	60630
Carn Vawr - -	79 22 59	
Garth - - -	78 32 20	42861
Carn Vawr - -	40 17 2	64969
Stalling Down Signal Staff	61 10 38	
Ogmoor Down -	27 11 37	42219
Garth - - -	26 44 21	42882
Stalling Down Signal Staff	126 4 2	
Ogmoor Down -	87 55 31	26587
Margam Down -	28 46 56	55183
St. Mary, Hill Steeple	63 17 33	
Ogmoor Down -	35 30 30	26557
Stalling Down Signal Staff	36 49 27	25735
St. Mary, Hill Steeple	107 40 3	
Margam Down -	11 43 37	29019
Ogmoor Down -	15 44 57	21731
Newton Down Signal Staff	152 31 26	
Ogmoor Down -	103 40 22	21743
St. Mary, Hill Steeple	33 40 20	38104
Newton Down Signal Staff	42 39 18	
Margam Down -	100 8 48	8155
Newton Down Signal Staff	14 46 0	31497
Barrow on Margam Down	65 5 12	
Newton Down -	50 17 30	12802
Margam Down -	25 17 37	23051
Kenfig Steeple -	104 24 53	
Margam Down -	19 26 0	22358
Newton Down -	35 31 30	12800
Kenfig Steeple -	125 2 30	
Ogmoor Down -	33 23 31	58553
Stalling Down Signal Staff	101 41 32	32908
Llantrisant Steeple -	44 54 57	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
	° ′ ″			° ′ ″	
Ogmoor Down	29 55 38	43012	Ogmoor Down	33 15 12	14983
Garth	29 5 20	44128	Bridgend Steeple	67 19 22	8904
St. Hilary Steeple	120 54 2		Llaleston Steeple	79 25 26	
Garth	47 21 22	49697	Bridgend Steeple	115 4 26	8912
Carn Vawr	56 16 0	43958	Carn Vawr	9 27 45	49102
St. Mary, Hill Steeple	76 22 38		Llaleston Steeple	55 27 49	
Carn Vawr	23 46 [illegible]	44657	Ogmoor Down	23 8 0	38171
St Mary, Hill Steeple	80 15 59	18264	Stalling Down Signal Staff	64 37 17	16599
Bridgend Steeple	75 57 42		Windmill near a round House	92 14 43	
Ogmoor Down	42 19 0	15963	Ogmoor Down	52 53 24	38157
St. Mary, Hill Steeple	36 2 30	18265	Carn Vawr	38 58 37	48377
Bridgend Steeple	101 38 30		Windmill	88 7 59	

ART. XIII. *Triangles for the Survey of Cambridgeshire.* *Plate* XIII.

Maddingly	98 49 3	68127	Orwell	75 6 40	22326
Balsham	43 2 55	98622	Balsham	17 29 10	71807
Sutton Steeple	38 8 2		Hardwick Spire	87 24 10	
Maddingly	95 17 44	30192	Orwell	90 23 56	4025
Balsham	25 1 8	71085	Ashwell Spire	4 22 2	52860
Orwell Pole	59 41 8		Orwell Pole	85 14 2	
Maddingly	41 32 32	88680	Royston	9 45 25	71870
Balsham	107 23 36	47954	Orwell	155 52 3	29789
Newmarket	31 3 52		Cambridge, St. Mary's	14 22 32	
Orwell	91 48 45	4028	Royston	4 56 35	42037
Maddingly	7 39 46	30194	Orwell	64 3 25	4028
Orwell Pole	80 31 29		Orwell Pole	111 0 0	
Orwell	3 38 5	28645	Royston	49 19 0	8135
Maddingly	56 20 33	2181	Orwell Pole	9 32 0	37249
Coton Spire	120 1 22		Royston Steeple	121 9 0	
Orwell	59 31 6	78735	Royston	103 36 40	23661
Maddingly	98 30 3	68608	Orwell Pole	25 47 0	52868
Balsham Steeple	21 58 51		Ashwell Spire	50 36 20	
Orwell	37 47 56	4024	Royston	66 13 0	24663
Balsham	1 59 7	71087	Orwell Pole	35 7 0	39232
Orwell Pole	140 12 47		Guildford Morden	78 40 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Royston - -	51	16	40	94158	Stretham Spire -	82	23	0	26332
Orwell - -	102	55	40	75371	Ely Minster - -	55	6	0	31823
Balsham Steeple -	25	47	40		Sutton Steeple -	42	31	0	
Royston - - -	105	6	0	43882	Stretham Spire -	80	58	0	28152
Orwell Pole -	41	2	0	64535	Sutton Steeple -	51	45	30	354 0
Gog Magog -	33	52	0		Cottenham Steeple -	47	16	30	
Royston - -	26	24	0	34776	Stretham Spire -	103	25	0	33736
Orwell Pole - -	54	51	0	18911	Sutton Steeple -	43	51	0	47368
Croydon Steeple -	98	45	0		Landbeach Spire -	32	44	0	
Orwell Pole - -	19	45	0	39235	Stretham Spire -	22	22	30	16762
Croydon Steeple -	143	39	0	22369	Sutton Steeple -	30	30	0	12572
Guildford Morden -	16	36	0		Haddenham Spire -	127	7	30	
Maddingly - -	0	9	40	252	Stretham Spire -	35	8	0	47676
Newmarket - -	99	20	20	88721	Sutton Steeple -	114	48	0	30216
Newmarket Telegraph	80	30	0		Bluntesham Spire -	30	4	0	
Maddingly - -	26	9	5	79149	Stretham Spire - -	59	45	0	71594
Newmarket - -	63	11	10	39087	Newmarket - -	66	39	0	67362
Soham Steeple -	90	39	45		Gog Magog -	53	36	0	
Maddingly - -	16	13	40	86579	Stretham Spire -	12	33	0	39482
Newmarket - -	77	4	50	24824	Newmarket - -	19	32	0	25659
Fordham Steeple -	86	41	30		Burwell Spire - -	147	55	0	
Maddingly - -	45	0	46	63040	Stretham Spire -	27	3	0	41378
Newmarket -	45	18	18	62721	Newmarket -	96	2	0	31989
Stretham Spire -	89	40	56		Swaffham Steeple -	116	55	0	
Newmarket -	65	47	20	90650	Stretham Spire -	41	25	0	49599
Balsham - -	82	34	20	83376	Newmarket -	52	7	10	41571
Willingham Spire -	31	38	20		Bottisham Steeple -	86	27	50	
Newmarket -	86	50	48	62752	Royston - -	49	56	30	65949
Balsham - -	54	36	57	76852	Balsham - -	44	39	50	71807
Stretham Spire -	38	32	15		Hardwick Spire -	85	23	40	
Maggots Mount -	9	17	18	49781	Chatteris - -	98	58	0	32032
Balsham - -	111	5	24	8613	Ely Minster -	28	20	0	66663
Balsham Steeple -	59	37	18		March Spire -	52	42	0	
Newmarket -	18	3	0	62766	Chatteris -	22	41	0	56054
Ely Minster - -	63	40	40	21697	Ely Minster - -	84	48	0	21706
Stretham Spire -	98	16	20		Stretham Spire -	72	31	0	
Newmarket -	84	43	0	67430	Chatteris - -	104	28	0	15462
Ely Minster - -	46	47	0	92133	Ely Minster -	14	35	0	59464
Gog Magog -	48	30	0		Doddington Spire -	60	57	0	

Names of Stations and intersected Objects.	Angles for Calculation ° ′	Distances in Feet
Sutton Steeple	14 35	42864
Chatteris -	135 40	15444
Doddington Spire	29 45	
Sutton Steeple	25 36	56665
Chatteris -	130 10	32040
March Spire -	24 14	
Sutton Steeple	59 54	30415
Chatteris -	60 0	20380
Somersham Steeple	60 5	
Sutton Steeple	69 19	4982[illegible]
Chatteris -	93 5	3783[illegible]
Warboys Spire	37 35	
Sutton Steeple	94 23	6739
Chatteris -	12 15	3167[illegible]
Witcham Steeple	73 22	
Sutton Steeple	134 30	1109
Chatteris -	11 42	3902
Wentworth -	33 48	
Chatteris -	44 36	4548[illegible]
Sutton Steeple	93 30	3200[illegible]
Downham Spire	41 54	
Stretham Spire	20 28	7784[illegible]
Chatteris -	121 48	32026
March Spire -	37 44	
Stretham Spire	32 15	1675
Chatteris -	[illegible] 3	4282[illegible]
Haddenham Spire	135 42	
Sutton Steeple	26 1	4859
Ely Minster -	119 4	2438
Little Port -	34 55	
Sutton Steeple	119 8	3043[illegible]
Ely Minster -	29 41	[illegible]368
Chatteris -	31 11	
Stretham Spire	97 45	7133[illegible]
Bulsham -	39 16	11167[illegible]
Fen Stanton -	42 59	
Stretham Spire	105 41	4776[illegible]
Bulsham -	27 5 2	10078[illegible]
Bluntisham Spire	47 13 4	

Names of Stations and intersected Objects.	Angles for Calculation ° ′	Distances in Feet
Stretham Spire	97 45	698
Balsham -	38 44	110575
St. Ives Spire -	43 31	
Stretham Spire	59 46 3	28158
Balsham -	21 13	67226
Cottenham -	99 0 17	
Stretham Spire	37 57	69851
Cottenham -	122 5	50700
St. Ives Spire -	19 58	
Bottisham Steeple	32 49	22757
Stretham Spire -	22 2	32876
Waterbeach -	125 9	
Bottisham Steeple	34 38	41597
Stretham Spire -	56 58	28199
Cottenham -	88 24	
Bottisham Steeple	41 10	59058
Stretham Spire	82 28	39213
Willingham Spire	56 22	
Cottenham -	32 40 40	3092
Balsham -	22 3	44453
Chesterton Spire	125 15	
Cottenham -	127 56	46090
Balsham -	20 49	102246
Fen Stanton -	31 13	
Cottenham -	132 7 2	31708
Balsham -	14 53	91566
Swavesey Steeple	32 59	
Cottenham -	105 57	20641
Balsham -	15 13 4	7555[illegible]
Lesy Stanton -	58 4	
Cottenham -	83 52 4	1899[illegible]
Balsham -	16 9	67881
Oakingham -	79 57 5	
Cottenham -	106 18	3915[illegible]
Balsham -	25 39 4	66781
Boxworth Spire	48 1 5	
Cottenham -	25 49	3913[illegible]
Swavesey Steeple	101 40	1740[illegible]
Boxworth Spire	52 31	

Names of Stations and intersected Objects.	Angles for Calculation. °	'	"	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation. °	'	"	Distances in Feet.
Cottenham - -	26	12	0	20631	Puttock's Bridge -	136	21	0	9289
Swavesey Steeple -	34	37	0	16035	Chatteris - -	15	34	0	23892
Long Stanton - -	119	11	0		Benwick Chapel -	28	5	0	
Cottenham - -	4	10	30	46363	Chatteris - -	58	12	0	16303
Swavesey Steeple -	166	51	0	14837	Warboys Spire -	25	21	0	32361
Fen Stanton -	8	58	30		Puttock's Bridge -	96	27	0	
Bottisham Steeple -	22	25	20	34798	Chatteris - -	28	57	0	35578
Balsham Station -	109	44	40	14102	Warboys Spire -	68	44	0	18479
Weston Colville -	47	50	0		Ramsey Steeple -	82	19	0	
Bottisham Steeple -	105	28	40	28478	Balsham - -	19	31	0	46031
Balsham Station -	38	6	0	44480	Royston - -	17	3	10	52437
Chesterton Spire -	36	25	20		Maggot's Mount -	143	25	50	
Bottisham Steeple -	38	10	20	28755	Maggot's Mount -	21	35	30	17736
Balsham - -	74	53	40	18407	Royston - -	10	17	30	36532
Westley Steeple -	66	56	0		Foulmire Steeple -	148	7	0	
Bottisham Steeple	15	35	0	9361	Foulmire Steeple -	20	52	0	14318
Balsham - -	7	47	20	18557	Royston - -	12	25	20	23709
Great Wilbraham -	156	37	40		Melbourn Steeple -	146	42	40	
Bottisham Steeple -	39	11	20	29236	Foulmire Steeple -	105	49	0	20526
Balsham - -	75	36	0	19073	Royston - -	25	7	0	46526
Borough Green -	65	12	40		Chapel Bush -	49	4	0	
Bottisham Steeple	24	12	0	39234	Foulmire Steeple -	47	32	0	15643
Cottenham - -	70	8	0	17101	Royston -	23	57	24	28420
Histon Steeple -	85	40	0		Meldreth Steeple -	108	30	36	
Stretham Spire -	17	9	0	17195	Foulmire Steeple -	40	20	0	7527
Sutton Steeple -	27	7	0	11124	Maggots Mount -	22	6	0	12950
Wentworth Steeple -	135	44	0		Thriplow Steeple -	117	34	0	
Stretham Spire -	39	1	0	26833	Foulmire Steeple -	42	18	0	20505
Sutton Steeple -	72	1	0	17760	Maggot's Mount -	79	27	0	14038
Coveney Steeple -	68	58	0		Chapel Bush -	58	15	0	
Stretham Spire -	115	52	0	32917	Foulmire Steeple -	51	32	0	23772
Sutton Steeple -	36	3	0	50331	Chapel Bush -	72	52	0	19477
Waterbeach -	28	5	0		Great Shelford Spire -	55	36	0	
Chatteris - -	147	47	0	16319	Maggot's Mount -	29	45	0	20243
Haddenham Spire -	8	44	0	57298	Balsham Steeple -	17	19	20	33736
Puttock's Bridge -	23	29	0		Gog Magog Telegraph	132	55	40	
Chatteris - -	72	59	0	16295	Balsham - -	23	26	0	12373
Doddington - -	55	35	0	18887	Gog Magog -	12	27	0	22824
Puttock's Bridge -	51	26	0		Gunner Hill, Tree -	144	7	0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation ° ′	Distances in Feet.
Balsham	157 58 0	6100	Gog Magog	35 3 3	32415
Gog Magog	3 20 0	39362	Hardwick Spire	45 34 3	26072
Wratting Mill	18 42 0		Chapel Bush	99 22	
Balsham	119 16 0	19707	Gog Magog	22 31	50241
Gog Magog	21 40 0	46564	Chapel Bush	126 2	23792
Brinkley Steeple	39 4 0		Caldecot Steeple	31 27	
Gog Magog	20 54 0	32004	Gog Magog	23 1	46553
Gunner Hill, Thorn	121 47 0	13431	Chapel Bush	119 49	20979
Linton Mill	37 19 0		Toft Steeple	37 10	
Gog Magog	4 6 0	33515	Hardwick Spire	88 1	13621
Linton	120 44 0	2787	Orwell Pole	29 53	27321
Linton Steeple	55 10 0		Ash Tree	62 6	
Balsham	25 51 0	12619	Orwell Pole	36 30	31052
Balsham Steeple	116 30 0	6148	Hardwick Spire	92 29	18487
Wratting Mill	37 39 0		Crow Hill Lea	51 1	
Balsham	160 27 5	19714	Hardwick Spire	114 43 1	13622
Royston	3 20 55	112930	Chapel Bush	21 16 5	34093
Brinkley Steeple	16 12 0		Ash Tree	44 0	
Gog Magog	33 19 0	32004	Ash Tree	62 53	8589
Balsham Steeple	68 34 40	18883	Chapel Bush	14 13	31129
Linton Mill	78 6 20		Bourne Spire	102 54	
Balsham Steeple	65 27 0	24823	Ash Tree	118 10	11577
Linton Mill	69 13 0	24150	Chapel Bush	14 28	40853
Shudy Camps Steeple	45 20 0		Caxton Steeple	47 22	
Balsham Steeple	67 56 0	6133	Ash Tree	90 6	5068
Shudy Camps	14 10 0	23225	Bourne Spire	30 31	9981
Wratting Mill	97 54 0		Lea Ash	59 23	
Balsham Steeple	70 12 0	12680	Ash Tree	75 26	13560
Wratting Mill	81 7 0	12075	Lea Ash	82 48	13228
Horseheath Mill	28 41 0		Long Stow Steeple	21 46	
Balsham Steeple	39 5 0	10186	Fordham Steeple	67 3	22052
Wratting Mill	105 19 0	6658	Newmarket Telegraph	51 40 30	25884
West Wickham Steeple	35 36 0		Burwell Spire	61 16 30	
Orwell Pole	121 51 0	22047	Fordham Steeple	36 49	18316
Gog Magog	18 40 0	58512	Newmarket Telegraph	47 42	14840
Bourne Spire	39 29 0		Exning Steeple	95 29 0	
Stretham Spire	36 11 0	72588	Fordham Steeple	12 46	24824
Gog Magog	73 7 0	44784	Newmarket Telegraph	85 25 0	5503
Hardwick Spire	70 42 0		Newmarket Great Church	81 49 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Sutton Steeple	47	10	0	68571
Little Port	87	45	0	50325
Isleham Steeple	45	5	0	
Ely Minster	53	26	0	103629
Chatteris	95	31	30	83627
Wisbich	31	2	30	
Wisbich	57	16	0	64245
Chatteris	47	52	0	72875
Thorney Abbey	74	52	0	
Ely Minster	57	25	0	82477
March Spire	72	15	0	72970
Downham	50	20	0	
Doddington	67	10	0	84730
Ely Minster	71	12	0	82491
Downham	41	38	0	
Ely Minster	26	14	0	77803
Downham	69	45	0	36657
Upwell Spire	84	1	0	
Ely Minster	34	31	0	111362
Downham	98	22	0	63782
Leverington Spire	47	7	0	
Ely Minster	32	16	0	103625
Downham	95	19	0	55562
Wisbich	52	25	0	
Wisbich	17	33	0	104709
Ely Minster	83	9	0	31801
Sutton	79	18	0	
Wisbich	108	12	0	64206
Ely Minster	26	15	0	137904
Lynn, Old Tower	45	33	0	
Wisbich	82	48	0	99156
Ely Minster	47	10	0	134146
Peterborough Cathedral	50	2	0	
Wisbich	9	42	0	85069
Ely Minster	35	56	0	24424
Little Port	134	22	0	
Wisbich	106	48	0	75507
Ely Minster	29	57	0	144787
Crowland Abbey	43	15	0	

Names of Stations and intersected Objects.	Angles for Calculation °	′	″	Distances in Feet.
Wisbich	88	17	0	64282
Ely Minster	32	17	0	120300
Thorney Abbey	59	26	0	
Downham	69	54	0	56497
Wisbich	55	44	0	64199
Lynn Old Tower	54	22	0	
Downham	5	24	0	52636
Wisbich	57	28	0	5875
Walsoken	117	8	0	
Chatteris	64	56	0	56557
Wisbich	40	39	0	78642
Whittlesea	74	25	0	
Chatteris	46	19	0	35616
Whittlesea	38	52	0	41045
Ramsey Steeple	94	49	0	
Lynn	105	12	0	19541
Wisbich	15	13	0	71844
Middleton Steeple	59	35	0	
Lynn	40	47	0	10676
Wisbich	7	5	0	56550
Clench Wharton	132	8	0	
Lynn	13	43	0	18858
Wisbich	5	34	0	46099
Tinley St. Lawrence	160	43	0	
Lynn	95	13	0	10650
Downham	10	27	0	58472
Clench Wharton	74	20	0	
Lynn	50	47	0	19520
Downham	18	53	30	46708
Middleton Steeple	110	19	30	
Lynn	68	8	0	18842
Downham	19	27	0	52513
Tinley St. Lawrence	92	25	0	
Lynn	54	33	0	58331
Downham	64	30	0	52646
Walsoken	60	57	0	
Whittlesea	6	44	0	70598
Wisbich	44	11	0	11877
Walton Steeple	129	5	0	

Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.			Distances in Feet.
	°	′	″			°	′	″	
Whittlesea - -	12	2	0	58317	Cottenham - -	12	21	0	66803
Wisbich - -	29	23	0	24779	St. Ives - -	135	32	0	20397
Parson's Drove -	138	35	0		King's Bush -	32	7	0	
Whittlesea - -	68	57	0	46651	St. Ives -	33	42	0	23543
Wisbich - -	35	8	0	75655	King's Bush - -	86	27	0	13088
Crowland Abbey -	75	55	0		Huntingdon Steeple -	59	51	0	
Peterborough -	11	11	0	78628	St. Ives - -	156	19	0	15252
Wisbich - -	34	42	10	26786	King's Bush - -	10	6	30	34905
Whittlesea Spire -	134	6	50		Wheat Sheaf Inn -	13	34	30	
Peterborough -	91	14	0	23991	Wheat Sheaf Inn -	23	58	0	57885
Whittlesea - -	41	18	0	36333	King's Bush - -	127	25	0	29604
Yaxley Spire - -	47	28	0		Eltesley Spire -	28	37	0	
Cottenham - -	87	8	0	66797	Cottenham - -	16	48	0	69222
Sutton - -	64	20	0	74016	King's Bush - -	88	29	0	20014
King's Bush - -	28	32	0		Yelling Spire - -	74	43	0	

ART. XIV. *Secondary Triangles for the Survey of the remaining Part of Berkshire,* together with Part of Bedfordshire and Part of Buckinghamshire. Plate* XIV.

The Distances serving as Base Lines for the following Triangles are,

Pen Steeple to Stanmore Station -	75325,4 Feet
Bagshot Heath to Nuffield - -	105321,2
Bagshot Heath to Hind Head - -	92425.9
Quainton to Bow Brickhill - -	67491.4
Lillyhoe to Bow Brickhill - -	69868
Kensworth to Bow Brickhill - -	57668
Kensworth to Wendover - -	67090.7
Brogborough from Bow Brickhill -	22586,7
Kensworth to Stanmore Station -	98577.5
St. Ann's Hill to Hanger Hill Tower	68895.8
St. Ann's Hill to Pen Steeple -	92000.5

Stanmore -	73	17	18	107464	Wendover	59	18	14	193032
Bagshot Heath	47	10	13	140342	Stanmore	86	55	28	166125
Wendover	59	32	29		Royston	33	46	18	
Wendover	102	22	26	92402	Wendover	64	43	46	114355
Stanmore	35	20	38	156020	Stanmore	60	26	30	118884
Bow Brickhill	42	16	56		Lilleyhoe	54	49	44	

* See p. 269.

Names of Stations and intersected Objects.	Angles for Calculation.	Distance in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
				° ′ ″	
Pen Steeple	70 12	56120	Kensworth - -	4 21 5	41929
Stanmore -	43 9 20	77198	Bow Brickhill -	11 20 33	16176
Windsor Castle	66 38 40		Hill Farm - -	164 18 2	
Pen Steeple	12 20 40	79987	Hill Farm - -	54 39 4	20862
Stanmore -	99 20 20	17330	Kensworth - -	29 4) 4.	34371
Harrow Spire	68 19		Leighton Spire -	95 39 3	
Bagshot Heath	48 47 12	105322	Kensworth -	59 9 4	18212
Nuffield -	71 13 46	83680	Leighton Spire -	31 59 2	29518
Pen Steeple	59 59		Ivinghoe Hill -	88 51	
Hind Head -	18 44 32	180325	Leighton Spire -	9 58	29816
Bagshot Heath	143 30 44	97436	Ivinghoe Hill -	88 22	5162
Nettlebed -	17 44 44		Ivinghoe Spire -	81 40	
Bow Brickhill	61 13 54	77064	Leighton Spire -	24 36 3	44328
Hanslope -	75 33 59	69735	Ivinghoe Hill -	119 36	21229
Pavenham -	43 12		Tring Steeple -	35 47 3	
Bow Brickhill	70 16	107275	Wendover - -	30 7 54	53027
Hanslope -	79 45	102614	Kensworth - -	21 49 6	09088
Keysoe Spire	29 58 56		Long Crindon Mill -	28 3	
Bow Brickhill	58 19 58	84080	Long Crindon Mill -	3 40 3	51061
Hanslope -	81 46 57	72304	Kensworth - -	3 13 26	58217
Sharnbrook -	39 53 5		Bearston Steeple -	73 6	
Bow Brickhill	40 28 54	77236	Long Crindon Mill -	12 56 30	17184
Hanslope -	94 52 48	50324	Kensworth -	7 47	16857
Cobham's Pillar	44 38 18		Brill Spire - -	59 16 30	
Quainton -	75 4 46	58758	Hill Farm - -	70 40 16	34281
Bow Brickhill	47 19 1	77236	Bow Brickhill -	81 30 20	32707
Cobham's Pillar	57 36 13		tewkley Steeple -	27 49 24	
Quainton -	75 15 34	79188	Brogborough -	15 7 14	36711
Bow Brickhill	49 13 49	62013	Bow Brickhill -	43 18 40	16023
Stow Pyramid	55 30 37		Bletchley Steeple -	21 34 6	
Lillyhoe -	15 19 30	118629	Brogborough -	11 37 10	30625
Bow Brickhill	44 51 38	54475	Bow Brickhill -	40 13 50	9642
Hanslope Spire	19 48 52		Fenny Stratford -	28 9 0	
Lillyhoe -	28 29 54	80236	Brogborough -	25 53 50	17875
Bow Brickhill	90 58 5	38289	Bow Brickhill - -	0 11 40	10163
Wing Steeple	60 32 1		Wavendon Steeple -	03 54 30	
Lillyhoe -	35 46 6	87764	Kensworth -	41 16 0	01059
Bow Brickhill	91 30 2	51317	Stanmore - -	71 15 30	70387
Wingrave Steeple	52 43 52		Berkhampstead Gazebo	67 28 30	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Kensworth	23	5	15	60355
Stanmore	28	53	40	48981
St. Peter's Steeple, St. Albans	128	1	5	
Kensworth	72	40	10	18282
Stanmore	10	36	50	94752
Crawley Clump	96	43	0	
St. Ann's Hill	14	48	30	77205
Hanger Hill Tower	106	14	0	20551
Harrow Spire	58	57	30	
St. Ann's Hill	55	35	6	77207
Pen Steeple	52	47	22	79974
Harrow Spire	71	37	32	
St. Ann's Hill	70	23	36	68893
Pen Steeple	43	17	40	94639
Hanger Hill Tower	66	18	44	
Pen Steeple	35	0	0	14386
Harrow Spire	6	54	0	68687
Beaconsfield Spire	138	6	0	
Harrow Spire	35	21	30	31260
Beaconsfield	22	43	30	46888
Hillingdon Steeple	121	55	0	
Hillingdon Steeple	110	52	0	5991
Harrow Spire	9	31	0	33864
Uxbridge Steeple	59	37	0	
Hillingdon Steeple	106	2	0	18063
Harrow Spire	25	36	0	40178
Hare and Hounds	48	22	0	
Hillingdon Steeple	152	43	0	15715
Harrow Spire	9	3	0	45798
Iver Heath Direction Post	18	14	0	
Beaconsfield	72	6	0	14308
Pen Steeple	53	44	0	16886
Woburn Green, Tree.	54	10	0	
Beaconsfield	85	10	0	30739
Pen Steeple	68	56	10	32823
Cookham Dean, Tree	25	53	50	
Beaconsfield	9	2	0	15466
Pen Steeple	110	5	0	2585
Meeting House, Pen Beacon	60	53	0	

Names of Stations and intersected Objects.	Angles for Calculation. °	′	″	Distances in Feet.
Pen Steeple	22	44	0	14373
Windsor Flag Staff	7	23	0	43221
Beaconsfield Spire	149	53	0	
Beaconsfield	64	43	0	30703
Windsor Castle	42	42	0	40911
Cookham Dean, Tree	72	35	0	
Windsor Castle	15	0	0	24042
Cookham Dean, Tree	19	20	0	18796
Bray Steeple	145	40	0	
Windsor Castle	19	50	50	37756
Cookham Dean, Tree	66	59	0	13927
Mount Pleasant	93	10	10	
Windsor Castle	45	21	0	18790
Cookham Dean, Tree	25	43	0	30805
Farnham Steeple	108	56	0	
Windsor Castle	107	35	10	14202
Cookham Dean, Tree	16	40	50	47165
Langley Steeple	55	44	0	
Cookham Dean, Tree	24	2	0	14238
Bray Steeple	45	2	0	8196
Taplow Church Yard, Yew	110	56	0	
Cookham Dean, Tree	45	34	0	33552
Bray Steeple	101	5	0	24416
Fox's Large House	33	21	0	
Cookham Dean, Tree	46	29	0	35272
Bray Steeple	102	7	0	26161
Stoke Spire	31	24	0	
Cookham Dean, Tree	86	18	0	22660
Bray Steeple	37	50	0	13928
Mount Pleasant	55	52	0	
Cookham Dean, Tree	45	2	0	30753
Bray Steeple	97	44	0	21978
Farnham Steeple	37	14	0	
Cookham Dean, Tree	102	34	0	17248
Bray Steeple	36	47	0	28114
Woburn Green, Tree	40	39	0	
Cookham Dean, Tree	75	56	0	9717
Bray Steeple	29	50	0	18945
Cookham Steeple	74	14	0	

Names of Stations and intersected objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Woburn Green, Tree	102 12 40	18766
Mount Pleasant -	62 41 0	20648
Marlow Hill, Tree -	15 6 20	
Woburn Green, Tree	83 28 0	10287
Mount Pleasant -	67 1 0	11102
Little Marlow Spire -	29 31 0	
Marlow Hill, Tree -	74 40 0	10301
Woburn Green, Tree -	31 46 0	18869
Great Marlow Spire	73 34 0	
Farnham Steeple -	87 53 0	10868
Bray Steeple -	26 43 0	24156
Herschel's Telescope -	65 24 0	
Farnham Steeple -	20 46 0	10159
Bray Steeple - -	16 6 0	12989
Burnham Steeple -	143 8 0	
Hare and Hounds -	51 19 0	4121
Hillingdon Steeple -	11 44 0	15818
Denham Spire -	116 57 0	
Beaconsfield -	51 41 0	20641
Hillingdon - -	25 27 0	37687
Sir H. Gitt's Monument	102 52 0	
Beaconsfield - -	48 14 30	29018
Cookham Dean, Tree	62 12 30	24637
Hill Farm, Ash, near Wickham - -	69 33 0	
Cookham Dean, Tree	28 43 0	30860
Beaconsfield - -	76 5 0	15276
Meeting House, Pen -	75 12 0	
Cookham Dean, Tree -	89 0 0	29330
Beaconsfield - -	44 8 0	42116
Whitlington Park, Clump	46 52 0	
Mount Pleasant - -	40 44 0	18636
Cookham Dean, Tree	90 59 0	12163
Cupola, Large House, Maidenhead -	48 21 0	
Mount Pleasant -	30 42 0	37557
Bray Steeple - -	116 41 0	21463
Shottesbrook Spire -	32 37 0	

Names of Stations and intersected Objects.	Angles for Calculation ° ′ ″	Distances in Feet.
Woburn Green, Tree	27 19 [illegible]	4214 z
Bray Steeple - -	115 38 0	21449
Shottesbrook Spire -	37 3 0	
Cookham Dean, Tree -	153 45 0	55603
Windsor Castle -	15 9 0	94099
Nettlebed - -	11 6 0	
Nettlebed - -	22 53 0	20690
Cookham Dean, Tree	12 25 0	37417
Clump above Henley -	144 42 0	
Nettlebed - -	27 47 20	48142
Windsor Castle -	23 32 40	56188
Ruscombe Steeple -	128 40 0	
Nettlebed - -	43 27 0	16911
Ruscombe Steeple -	17 58 0	37703
Fawley Steeple	118 35 0	
Nettlebed - -	5 18 30	36657
Ruscombe Steeple -	16 14 30	12126
Shiplake Steeple -	158 27 0	
Nettlebed - -	16 40 0	20707
Ruscombe Steeple -	11 51 0	26921
Henley Clump -	151 29 0	
Ruscombe Steeple -	22 20 0	8903
Shiplake Steeple -	41 1 0	5155
Walgrave Steeple -	116 39 0	
Ruscombe Steeple -	28 23 0	24347
Shiplake Steeple -	128 46 0	14842
Henley Steeple -	22 51 0	
Nettlebed - -	6 39 0	39283
Shiplake Steeple -	117 26 0	5125
Walgrave Steeple -	55 55 0	
Nettlebed - -	15 10 0	20731
Walgrave Steeple -	15 43 0	20023
Henley Clump -	149 7 0	
Nettlebed - -	41 54 0	28982
Walgrave Steeple -	22 57 0	16922
Fawley Steeple -	115 9 0	
Walgrave Steeple -	82 42 0	9610
Ruscombe Steeple -	51 8 0	12242
Jews Summer House	46 10 0	

Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation. ° ′ ″	Distances in Feet.
Kensworth - -	13 12 40	117116	Hadwell Barrow -	118 9 40	14278
Quainton - -	137 18 50	39479	Long Crindon Mill -	16 36 20	44048
Brill Steeple - -	29 28 30		Aston Hill, Cot. House	45 14 0	
Kensworth - -	20 27 3	65341	Hadwell Barrow -	78 15 0	36616
Quainton - -	43 50 18	32962	Long Crindon Mill -	54 36 0	43013
Aylesbury Spire -	115 42 39		Risborough Spire -	52 9 0	
Quainton - -	81 56 22	51062	Hadwell Barrow -	19 39 0	27340
Long Crindon Mill -	42 0 43	34516	Long Crindon Mill -	43 24 0	13381
Bearston Steeple -	56 2 55		Kingsley Mill -	116 57 0	
Long Crindon Mill	2 30 0	43788	Hadwell Barrow - -	66 47 0	42212
Bearston Steeple -	14 38 0	7560	Tame Steeple -	79 22 0	39472
Aylesbury Spire -	162 52 0		White Leaf Cross -	33 51 0	
Long Crindon Mill	53 10 0	51505	Aylesbury Spire -	50 56 0	42212
Aylesbury Spire -	72 39 0	43189	Hadwell Barrow -	24 5 0	39472
Lousley Row Mill -	54 11 0		Ellesborough Station -	104 59 0	
Quainton - -	66 2 55	42779	Ellesborough Hill -	63 13 0	22226
Aylesbury Spire -	44 45 45	43756	Aylesbury Spire -	51 7 0	25490
Long Crindon -	69 11 20		White Hill Barrow -	65 40 0	
Long Crindon Mill -	26 35 0	51895	Ellesborough Hill -	41 24 0	27715
Aylesbury Steeple -	96 31 0	23374	Aylesbury Spire -	74 5 0	19·59
Whitchurch Steeple -	56 54 0		Dinton Steeple -	64 31 0	
Long Crindon Mill -	101 32 0	35467	Ellesborough Hill -	28 24 0	26930
Aylesbury Spire -	34 21 0	61588	Aylesbury Spire -	79 42 0	13018
Hadwell Barrow -	44 7 0		Stone Mill - -	71 54 0	
Long Crindon Mill -	84 55 0	44047	Ellesborough Hill -	26 58 0	39150
Aylesbury Spire -	47 45 0	59273	Aylesbury Spire -	116 31 0	19841
Aston Hill, Cot. House	47 20 0		Canny Hill Tree -	36 31 0	
Whitchurch -	20 43 0	78891	Ellesborough Hill -	88 26 0	26310
Long Crindon Mill -	128 7 0	35472	Aylesbury Spire -	10 17 0	4698
Hadwell Barrow -	31 10 0		Wendover New Station	81 17 0	
Hadwell Barrow -	7 12 0	23924	Aylesbury Spire - -	22 55 0	43311
Long Crindon Mill	14 20 0	12112	Wendover New Station	128 53 0	21680
Tame Steeple -	158 28 0		Lousley Row Mill -	28 12 0	
Hadwell Barrow -	73 58 0	42241	White Hill Barrow -	34 3 0	9264
Long Crindon Mill -	59 37 0	47062	Ellesborough Barrow	19 36 0	15403
White Leaf Cross -	46 25 0		Weston Turville Steeple	126 21 0	
Hadwell Barrow -	15 14 0	37493	White Hill Barrow -	17 11 0	22847
Long Crindon Mill -	94 6 0	9877	Aylesbury Spire -	61 31 0	7679
Chearsley Steeple -	70 40 0		Bearston Spire -	101 18 0	

Names of Stations and intersected Objects.	Angles for Calculation. °	'	"	Distance in Feet.
White Hill Barrow	97	27		13598
Bearston Steeple	28	43		28063
Barrow above Wendover	53	50		
Wendover Barrow	131	5		8729
Bearston Spire	11	1		34433
Jenkins's Farm	37	54		
Long Crindon Mill	49	58		17695
Tame Steeple	86	55		13568
Haddenham Steeple	43	7		
Long Crindon Mill	79	46		9883
Tame Steeple	43	12		14207
Chearsley Steeple	57	2		
Tame Steeple	114	36		13545
Hadwall Barrow	22	37		32058
Haddenham Steeple	42	47		
Aylesbury Spire	5	37		19099
Stone Mill	162	40		6274
Dinton Steeple	11	43	0	
Hadwall Barrow	20	31	0	7895
Aston Hill, Cot House	21	54	0	7419
Aston Steeple	137	35	0	
Kensworth	59	9	40	17904
Leighton Spire	31	23	20	29513
Ivinghoe Hill	89	27	0	
Leighton Spire	9	58		29816
Ivinghoe Hill	88	22		5162
Ivinghoe Spire	81	40		
Leighton Spire	24	36	30	44328
Beacon Hill	119	36		21229
Tring Steeple	35	47	30	
Quainton	40	3	10	21877
Cobham's Obelisk	18	31	35	44307
Winslow Steeple	21	25	15	
Winslow Steeple	9	2	0	31504
Cobham's Obelisk	20	33	0	14091
Buckingham Spire	50	25	0	
Winslow Steeple	4	52		11624
Buckingham Spire	7	25		26188
[illegible]bury Steeple	67	43		

Names of Stations and intersected Objects.	Angles for Calculation. °	'	"	Distances in Feet.
Winslow Steeple	130	7		15916
Buckingham Spire	16	15		43497
Mursley Steeple	33	38		
Winslow Steeple	62	46		15648
Buckingham Spire	29	45		28039
Great Harwood Mill	87	29		
Great Harwood Mill	13	53	0	36449
Winslow Steeple	156	6	0	21586
Oving Steeple	10	1	0	
Great Harwood Mill	64	10		19477
Winslow Steeple	67	47		18937
Padbury Steeple	48	3		
Winslow Steeple	15	45		20632
Padbury Steeple	99	19	0	5074
Thornborough Steeple	64	56	0	
Buckingham Spire	79	50	0	12290
Stow Monument	45	25	0	16984
Tingewick Spire	54	45	0	
Cookham Dean, Tree	37	13	0	21231
Bray Steeple	81	38	0	12979
Burnham Steeple	61	9	0	
Tingewick Spire	12	38	0	17315
Buckingham Spire	140	34	30	5963
Maids Moreton	26	47	30	
Long Crindon Mill	3		34	109083
Bearston Spire	173			58217
Kensworth			26	
[illegible]ill	11	32		75747
Whitchurch Mill	143	29		25475
Wingrave Steeple	24	57		
Wingrave Steeple	25	6		43242
Whitchurch Steeple	126	42		22888
Waddesdon Steeple	28	11		
Brill	113	1	50	32132
Bicester	42	49		72668
Whitchurch Steeple	23	58		
Whitchurch Steeple	40	46		22888
Bicester	15	6	50	57325
Waddesdon Steeple	124	7	10	

Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.	Names of Stations and intersected Objects.	Angles for Calculation.	Distances in Feet.
				° ′ ″	
Bicester - -	13 29 0	11844	Aylesbury Spire	30 27 40	23416
Waddesdon Steeple -	3 27 0	45891	Quainton -	42 53 17	17443
Black Thorn Smoke Mill	163 4 0		Whitchurch Steeple	106 39 3	
Bicester - -	26 57 0	22548	Quainton -	78 31 0	21878
Waddesdon Steeple -	15 21 0	38603	Whitchurch Steeple	58 36 0	25118
Marsh Steeple -	137 42 0		Winslow Steeple	42 53 0	
Bicester - -	74 16 0	15665			
Waddesdon Steeple -	15 51 30	55178			
Stratton Audley Steeple	89 52 30				

ART. XV. *Altitudes of the Stations.*

For the purpose of obtaining the elevations of the Stations from the level of the sea, when the instrument was used in Anglesea, the height of Llanelian Mountain, above low water-mark, was found, by levelling with the portable transit, to be 582 feet 9 inches. After the measurement of the Base on Rhuddlan Marsh was finished, a similar operation gave 25 feet 5 inches for the height of the Station near Abergele, above the surface of the sea at low water.

The height of the steeple of the New Church at Milford, building in the year 1803, was 37 feet from its base. The ground on which the tower stands is 126 feet above low-water mark. This was found trigonometrically, the large circular instrument being used on the occasion. The top of the part of this steeple then built, from the surface of the sea at low water, was therefore 163 feet

The depression of the point, denoting low water-mark, near the rocks on Redcar Sands, was carefully observed from the Station at Burleigh Moor, from which, and the computed distance, 553,2 feet, was given for the altitude of that Station.

The height of Beryl Hill, near Poulton, in Lancashire, above low water, was found trigonometrically, by means of two intermediate stations on the coast, with the large instrument, to be 128,5 feet.

The elevation of the Station at Moel Rhyddlad, above the level of the sea, derived from the measured altitude of Llanelian Mountain in Anglesea, is 465,4 feet, and that of Llwydiart Mountain is 523 feet. From these two Stations, as also from Moel Rhyddlad, the highest part of Snowdon was observed. The angles subtended by the top of Snowdon and the horizon, found in the first section, give 3561 feet for the mean height of that mountain. The altitudes, separately deduced, are 3562,2,—3559,5, and 3561,2 feet, allowing for curvature, and the same proportional part of the arcs for refraction.

The height of Garreg Mountain, deduced from Rhuddlan Marsh, is 835 feet, and its depression beneath Snowdon 2740 feet; therefore 3575 feet is the height of Snowdon above the level of the sea by this mode: hence we have a difference of 14 feet between these independent results; and if a mean be taken, we get 3568 feet for the height of that mountain above the level of the sea at low water.

If a series of triangles, extending from any one point on the coast to any other point of it, has, at each extremity, a base of altitude from one common level, accurately measured, in deducing the elevations or depressions of the Stations, each base should be applied to the Stations in its vicinity; and, towards the middle of the series, the altitudes should be computed from each base, and the mean taken for the true results. On this principle the altitudes of the Stations mentioned in this work have, for the most part, been computed.

Dundry Beacon, near Bristol, is 790 feet above the level of the sea according to our former determination. See the Philosophical Transactions for the year 1800, page 715. In computing the altitudes of the Stations made mention of in that volume, the base of altitude at Maker Heights, near Plymouth, was used, and the truth of the process verified, in some degree, by a comparison between the computed altitude of Lugshorn Corner, the eastern extremity of the base line on Sedgemoor, and the height of it as deduced by another method.

The altitudes of the Stations in South Wales, given in this article, are deduced in the following manner:

The height of Milford Church Tower, from the level of the sea at low water, is 163 feet. At the Station near St. Ann's Light House, at the mouth of Milford Haven, the top of Milford Steeple is depressed 40′ 24″ with this angle; and the computed distance between the Tower and the Station, allowing for curvature and refraction, as well as the height of the telescope of the great Theodolite from the ground, the height of the Station, above the level of the sea, appears to be 235 feet.

The Station named Highgate Mountain is 131 feet above the top of Milford Steeple. Its height, above the sea, is therefore 294 feet. The angle used in the computation is 19′ 36″, being the observed depression of Milford Steeple from the Station on Highgate Mountain. From these Stations Highgate Mountain, and St. Ann's Height, proceeding eastward, computing the differences of altitude according to the usual method, we get

The Height of,	As deduced from.	Feet,	Mean Height,
Plumstone Down	St. Ann's Heights	570	573
	Highgate Mountain	577	
Newton Down	Highgate Mountain	322	325
	St. Ann's Heights	328	
	Plumstone Down	316	
Precelly Top	Newton Down	1758	1754
	Highgate Mountain	760	
	Plumstone Down	1744	
Marros Beacon	Newton Down	510	514
	Highgate Mountain	501	
	Precelly Top	551	
Cefn Bryn	Marros Beacon	583	583
Lannon	Marros Beacon	905	912
	Cefn Bryn	918	
Margam Down	Lannon	1097	1099
	Cefn Bryn	1101	
Brenin Fawr	Precelly Top	1285	1285
New Inn Hill	Precelly Top	1181	1179
	Brenin Fawr	1173	
Talsarn	New Inn Hill	1143	1143
Capel Kynon	Talsarn	1026	1033
	New Inn Hill	1046	
Ogmoor Down	Cefn Bryn	292	292
	Margam Down	292	
Trecastle Beacon	Lannon	2596	
Llangeinor Mount.	Trecastle Beacon	1859	
The Garth	Llangeinor Mountain	981	
Mynydd Mane	Llangeinor Mountain	1568	1567
	Garth	1566	
Dundry Beacon	Mynydd Mane	775	

The altitude of Dundry Beacon, as formerly computed, was said to be 790 feet, which differs 15 feet from the above determination.

The Heighth of,	As deduced from.	Feet,	Mean Heighth,
The Cradle Mount	Mynydd Mane -	2545	
Trelleg Beacon -	The Cradle Mountain	1012	1011
	Mynydd Mane -	1010	
May Hill -	Trelleg Beacon -	966	
Malvern Hills	May Hill -	1444	
Cleve Hill -	May Hill - -	1134	
Broadway Beacon	Malvern Hill -	1086	1079
	Cleve Hill -	1072	

At page 715 of the Philosophical Transactions for the year 1800, it will be seen, that Broadway Beacon is 1086 feet above the level of the sea at low water, a conclusion drawn by applying the base of altitude at Maker Heights, near Plymouth, to the differences of altitude of the Stations b tween that place and Broadway Beacon. From the above result, 1079 feet appears to be the height of that Station above the surface of the sea at Milford Haven.

This article would be swelled to an unnecessary extent, were the mode pointed out by which the altitude of every Station has been computed. It will be sufficient to state that, in deriving the numbers expressing the heights, the several differentes have been mingled together, and the means always taken. The altitudes of Broadway Beacon and Dundry Beacon is just found, compared with the heights as formerly derived, will convey an idea of the degree of accuracy attending this mode of deducing the heights.

The altitudes of the Stations along the boundaries of the triangles, as given in the papers heretofore published, compared with the altitudes of the same Stations, as found on this occasion, give results nearly similar with those derived from the different means of computing the altitudes of Broadway and Dundry Beacon.

The altitudes of most of the remarkable hills in England and Wales being now determined from the Trigonometrical Survey, and the alphabetical mode of arrangement appearing to be the most advantageous for the purpose of reference, it is hoped that the following list may prove acceptable to the public.

An Alphabetical List of the Altitudes of the Stations, and several other remarkable Hills, computed from the Observations made in the course of the Trigonometrical Survey.

A.

	Feet.
Aberystwith, *Cardiganshire*	496
Agnes (St.) Beacon, *Cornwall*	621
Allington Knoll, *Kent*	329
Alnwick Moor, *Northumberland*	808
Ann's (St.) Heights, at the Mouth of Milford Haven, *Pembrokeshire*	235
Ann's (St.) Hill, *Surrey*	240
Arbury Hill, *Northamptonshire*	804
Arran Fowddy, *Merionethshire*	2955
Arrenig, *Merionethshire*	2809
Ash Beacon, *Somersetshire*	655
Ashley Heath, *Staffordshire*	803
Axedge, *Derbyshire*	1751

B.

Bagshot Heath, *Surrey*	463
Banstead, *Surrey*	576
Bar Beacon, *Staffordshire*	653
Bardon Hill, *Leicestershire*	853
Barnaby Moor, *Yorkshire*	784
Beachy Head, *Sussex*	564
Beacons of Brecknock, *Brecknockshire*	2862
Beacon Hill, *Wiltshire*	690
Beeston Castle (Top of), *Cheshire*	556

	Feet.
Belle-field Hill, *Cheshire* - - -	401
Beryl Hill, *Lancashire* - - -	128
Billinge Beacon, *Lancashire* - - -	633
Bindown, *Cornwall* - - - -	658
Black Comb, *Cumberland* - - -	1919
Black Down, *Dorsetshire* - - -	817
Black Hambleton Down, *Yorkshire* - -	1246
Blackheddon, *Northumberland* - - -	646
Bleasdale Forest, *Lancashire* - - -	1709
Bodmin Down, *Cornwall* - - -	645
Boulsworth Hill, *Lancashire* - - -	1689
Bolt Head, *Devonshire* - - -	430
Botley Hill, *Surrey* - - - -	880
Botton Head, *Yorkshire* - - -	1485
Bow Brickhill, *Buckinghamshire* - - -	683
Bow Fell, *Cumberland* - - -	2911
Bow Hill, *Sussex* - - - -	702
Bradfield Point, *Yorkshire* - - -	1246
Bradley Knoll, *Somersetshire* - - -	978
Brandon Mount, *Durham* - - -	875
Brenin Fawr, *Pembrokeshire* - -	1[illegible]5
Brightling Down, *Sussex* - - -	646
Broadway Beacon, *Glocestershire* - -	1086
Brown Clay Hill, *Shropshire* - - -	1805
Brown Willy, *Cornwall* - - -	1368
Bull Barrow, *Dorsetshire* - - -	927
Burian (St.), *Cornwall* - - -	415
Burleigh Moor, *Yorkshire* - - -	553
Butser Hill, *Hampshire* - - -	917
Butterton Hill, *Devonshire* - -	1203
Bwlch Mawr, *Caernarvonshire* - -	1673

C.

	Feet.
Cader Ferwyn, *Merionethshire* - -	2563
Cader Idris, *Merionethshire* - - -	2914
Cadon Barrow, *Cornwall* - - -	1011
Caermarthen Van, or Trecastle Beacon, *Caermarthen*	2596
Calf Hill, *Westmoreland* - - -	2188
Carn Fell, *Yorkshire* - - -	2245
Capellante, *Brecknockshire* - -	2394
Capel Kynon, *Cardiganshire* - - -	1046
Carnedd David, *Caernarvonshire* - -	3427
Carnedd Llewellyn, *Caernarvonshire* - -	3469
Carraton Hill, *Cornwall* - - -	1208
Castle Ring, *Staffordshire* - - -	715
Cawsand Beacon, *Devonshire* - - -	1792
Cefn Bryn, *Glamorganshire* - - -	583
Chanctonbury Hill, *Sussex* - - -	814
Charton Common, *Dorsetshire* - - -	582
Cheviot, *Northumberland* - - -	2658
Clifton Beacon, *Yorkshire* - - -	417
Cleave Down, *Glocestershire* - -	1134
Collier Law, *Durham* - - - -	1678
Coniston Fell - - - -	2577
Corley, *Warwickshire* - - -	521
Cradle Mountain, *Brecknockshire* - -	2545
Crif Fell, *Scotland* - - - -	1831
Cross Fell, *Cumberland* - - -	2901
Crowborough Beacon, *Sussex* - -	804
Cyrn y Brain Mountain, *Denbighshire* - -	1857

D.

	Feet.
Danby Beacon, *Yorkshire*	966
Deadman, *Cornwall*	379
Dean Hill, *Hampshire*	539
Delamere Forest, *Cheshire*	596
Dent Hill, *Cumberland*	1115
Ditchling Beacon, *Sussex*	858
Dover Castle, *Kent*	469
Dumpdon Hill, *Dorsetshire*	879
Dundon Beacon, *Somersetshire*	360
Dundry Beacon, *Somersetshire*	1668
Dunnose, *Isle of Wight*	792
Dunrigs, *Scotland*	2408
Dwggan, near Builth, *Brecknockshire*	2071

E.

Easington Heights, *Yorkshire*	681
Elden Hills, near Melrose, *Scotland*	1364
Epwell Hill, *Oxfordshire*	836

F.

Fairlight Down, *Sussex*	599
Farley Down (near Bath), *Glocestershire*	700
Firle Beacon, *Sussex*	820
Folkstone Turnpike, *Kent*	575
Frant Steeple (Top), *Sussex*	659
Furland (near Dartmouth), *Devonshire*	589

G.

	Feet.
Garreg Mountain, *Flintshire* - - -	835
Garth (The), *Glamorganshire* - -	981
Gerwyn Goch, *Caernarvonshire* - -	1723
Go Hill, *Lancashire* - - - -	304
Goudhurst, *Kent* - - - -	497
Grasmere Fell, *Cumberland* - -	2756
Greenwich Observatory, *Kent* - -	214
Gringley on the Hill, *Yorkshire* - -	235
Gwaunysgaer Down, *Denbighshire* - -	732

H.

Haldon (Little), *Devonshire* - -	818
Hanger Hill (Tower), *Middlesex* - -	251
Hathersedge, *Derbyshire* - - -	1377
Hawkeston Obelisk (Top of), *Shropshire* -	812
Hedgehope, *Northumberland* - - -	2347
Helvellin, *Cumberland* - - -	3055
Hensbarrow Beacon, *Cornwall* - -	1034
Heswell Hill, *Cheshire* - - -	475
Highbeech, *Essex* - - -	750
Highclere Beacon, *Hampshire* - -	900
Highgate Down, *Pembrokeshire* - -	294
High Nook (near Dymchurch), *Kent* - -	28
High Pike, *Cumberland* - - -	2101
Hind Head, *Surrey* - - -	923
Holland Hill, *Nottinghamshire* - -	487
Holme Moss, *Derbyshire* - - -	1859
Hollingborn Hill, *Kent* - - -	616

	Feet.
Holy Head Mountain, *Anglesea* - -	709
Hundred Acres, *Surrey* - - -	443
Hunsley Beacon, *Yorkshire* - -	531

I.

Ingleborough Hill, *Yorkshire* - -	2361
Inkpin Beacon, *Hampshire* - - -	1011

K.

Karnbonellis, *Cornwall* - -	822
Karnminnis, *Cornwall* - - -	805
Kensworth, *Hertfordshire* - - -	904
Kilhope Law - - - - -	2196
King's Arbour, *Middlesex* - - -	132
Kit Hill, *Cornwall* - - -	1067

L.

Langdon Hill, *Essex* - -	620
Lansdown, *Somersetshire* - - -	813
Largo Law, *Scotland* - - -	952
Ledstone Beacon, *Yorkshire* - -	278
Leith Hill, *Surrey* - - -	993
Lillyhoe, *Hertfordshire* - -	664
Llandinam Mountain, *Montgomeryshire* -	1898
Llanelian Mountain, *Anglesea* - -	582
Llanelian Mountain, *Denbighshire* - -	1110
Llangeinor Mountain, *Glamorganshire* - -	1859
Llannon, *Caermarthenshire* - - -	912
Llwydiart Mountain, *Anglesea* - -	523
Lomond Hill (East), *Scotland* - -	1466
Lomond Hill (West), *Scotland* - -	1721

	Feet.
Long Mount Forest, *Shropshire* - -	1674
Long Mountain, *Montgomeryshire* - -	1330
Loosehoe, *Yorkshire* - - -	1404
Lords Seat, *Derbyshire* - - -	1751
Lumsdane Hill, *Scotland* - -	725

M.

Maker Heights, *Cornwall* - - -	402
Malvern Hill, *Worcestershire* - -	1444
Marros Beacon, *Caermarthenshire* - -	514
Margam Down, *Glamorganshire* - -	1099
May Hill, *Glocestershire* - -	965
Moel Faminau, *Denbighshire* - -	1845
Moelfre Issa, *Denbighshire* - - -	1037
Moel Rhyddlad, *Anglesea* - - -	465
Moor Lynch (Windmill), *Somersetshire* -	330
Moel Morwith, *Denbighshire* - -	1767
Mordington Hill, *Scotland* - -	641
Motteston Down, *Hampshire* - -	698
Mow Copt, *Cheshire* - - -	1091
Muzzle Hill (near Brill), *Buckinghamshire* -	744

N.

Nettlebed (Windmill), *Oxfordshire* - -	820
New Inn Hill, *Caermarthenshire* - -	1168
Newton Down, *Pembrokeshire* - -	322
Nine Barrow Down, *Dorsetshire* - -	642
Nine Standards, *Westmoreland* - -	2136
North Berule, *Isle of Man* - - -	1804
Norwood, *Surrey* - - -	389
Nuffield Common, *Berkshire* - - -	757

O.

	Feet.
Ogmoor Down, *Glamorganshire* - -	292
Orpit Heights, *Derbyshire* - - -	980

P.

Paddlesworth, *Kent* - - -	642
Pendle Hill, *Lancashire* - - -	1803
Pengarn, *Merionethshire* - -	1510
Penmaen Mawr, *Caernarvonshire* - -	1540
Pennigant Hill, *Yorkshire* - -	2270
Pertinney, *Cornwall* - - -	689
Pillar, *Cumberland* - - -	2893
Pilsdon Hill, *Dorsetshire* - - -	934
Plumstone Down, *Pembrokeshire* - -	573
Plynlimmon Mountain, *Cardiganshire* -	2463
Pontop Pike, *Durham* - - -	1018
Portsdown Hill, *Hampshire* - -	447
Precelly Top, *Pembrokeshire* - -	1754

Q.

Queensberry Hill, *Scotland* - -	2259

R.

Radnor Forest, *Radnorshire* - -	2163
Rhiw Mountain, *Caernarvonshire* - -	1013
Rippin Tor (Dartmoor), *Devonshire* - -	1549
Rivel Mountain, *Caernarvonshire* - -	1866
Rivington Hill, *Lancashire* - - -	1545
Rodney's Pillar (Base of), *Montgomeryshire* -	1199
Rooks Hill, *Sussex* - - -	702

	Feet
Roseberry Topping, *Yorkshire* - -	1022
Ruckinge, *Sussex* - - -	37
Rufflaw, *Northumberland* - - -	595
Rumbles Moor, *Yorkshire* - -	1308

S.

Saddleback, *Cumberland* - -	2787
Sarum (Old), *Wiltshire* - - -	339
Sayrs Law, *Scotland* - - -	1739
Sca Fell (Low Point), *Cumberland* - -	3092
Sca Fell (High Point), *Cumberland* - -	3166
Scilly Bank, *Cumberland* - -	500
Scutchamfly Beacon, *Berkshire* - -	853
Sennen, *Cornwall* - - -	387
Sherwood Forest, *Nottinghamshire* - -	600
Shooters Hill, *Kent* - - -	446
Shotover Hill, *Oxfordshire* - - -	599
Shunnor Fell, *Yorkshire* - - -	2329
Simonside Hill, *Northumberland* - -	1407
Skiddaw, *Cumberland* - - -	3022
Snea Fell, *Isle of Man* - - -	2004
Snowdon, *Caernarvonshire* - -	3571
Soutra Hill, *Scotland* - - -	1716
Staincross Heights, *Yorkshire* - -	514
Stathern Point, *Leicestershire* - -	490
Stockbridge Hill, *Hampshire* - -	620
St. Stephen's Down, *Cornwall* - -	605
Stow Hill, *Herefordshire* - - -	1417
Stow on the Wold, *Glocestershire* -	883
Swingfield Steeple (Top), *Kent* - -	530
Symmonds Hill, *Glocestershire* - -	795

T.

	Feet.
Talsarn, *Cardiganshire* - - -	1143
Tenterden Steeple, *Kent* - - -	322
Thorney Down, *Somersetshire* - -	610
Tregarron Down, *Cardiganshire* - -	1747
Trelleg Beacon, *Monmouthshire* - -	1011
Trevose Head, *Cornwall* - - -	274

W.

Water Crag, *Yorkshire* - - -	2186
Weaver Hill, *Staffordshire* - -	1154
Wendover Down, *Buckinghamshire* - - -	905
Westbury Down, *Wiltshire* - - -	775
Whernside (in Ingleton Fells), *Yorkshire* -	2384
Whernside (in Kettlewell Dale), *Yorkshire* -	2263
Whin Fell, *Scotland* - - -	2241
White Horse Hill, *Berkshire* - - -	893
Whiteham Hill, *Berkshire* - - -	576
Wilton Beacon, *Yorkshire* - - -	809
Wingreen Hill, *Dorsetshire* - -	941
Wisp Hill, *Scotland* - - -	1940
Wittle Hill, *Lancashire* - -	1614
Wordeslow Hill, *Durham* - -	632
Wrekin, *Shropshire* - - -	1320

Y.

Ynaliog Mountain, *Caernarvonshire* - -	584

SECTION FIFTH.

ART. I. *Observations made at Delamere Forest to determine the Zenith Distance of β Draconis.*

Point on the Limb 0° 45′ South.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above	Below
May 30	W.	9 30,1	8 7,07	0 45	1 23,03	0 46 22,37	29,37	[illegible]	[illegible]
June 4	W.	15 14,7	13 51,73		21,97	21,10	28,96	48	[illegible]
5	E.	6 16,4	7 42,0		25,60	24,74	29,17	51	[illegible]
6	W.	10 22,0	9 0,95		21,05	20,18	29,	51,5	53
7	W.	11 46,8	10 25,65		21,15	20,28	29,58	51,5	54,5
9	E.	6 48,3	8 14,53		25,23	24,37	29,67	62	63

Observed Zenith Distance of γ Draconis.

Point on the Limb 1° 40′ South.

May 30	W.	10 14,2	7 49,82	1 40	2 23,38	1 42 21,61	29.37	49,5	50
June 2	E.	4 45,3	7 14,10		27,80	26,04	29,67	51	51,5
4	W.	9 49,1	7 29,0		20,10	18.33	28,96	48	49
5	E.	4 39,4	7 5,0		24,60	22,84	29,17	51,5	51
7	W.	13 6,6	10 44,73		20,87	19.01	29,55	51,5	51,5
9	E.	5 20,9	7 44,68		23,78	22,01	29,67	62	63

Observed Zenith Distance of 45 d Draconis.

Point on the Limb 3° 45′ North.

June 2	E.	2 37,0	7 9.57	3 45	4 31,57	3 40 51,98	29,64	50.5	51,5
4	W.	6 45,6	7 25,7	40	0 39,10	39,16	29.0	47,5	48
7	W.	8 12,6	8 50,48		37,88	37.94	29,56	51	52
9	E.	3 4,5	7 31,22	45	4 26,70	36,84	29,67	62	63

Observed Zenith Distance of 46 c Draconis.

Point on the Limb 2° 10′ North.

June 2	E. E.	4 22,5	7 5,05	2 10	2 41,55	2 7 20,28	29,64	50,5	51,5
4	W. W.	9 50,1	7 13,63		36,47	25,27	29,0	47,0	48
7	W. W.	11 16,8	8 39,61		36,19	25,50	29,56	51	52
9	E. E.	4 36,6	7 11,95		34,35	27,40	29,66	61,5	62,5

Observed Zenith Distance of 51 Draconis.

Point on the Limb 0° 5′ South.

Day of the Month.	Face of the Arch, W. or E	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
June 7	W.	15 44,0	13 34,03	0 5	2 9,97	0 7 8,18	29,56	51,5	52,5
9	E.	4 56,5	7 11,03		13,53	11,75	29,66	61	62

Observed Zenith Distance of μ Draconis.

Point on the Limb 1° 30′ North.

Day of the Month.	Face of the Arch, W. or E	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
June 2	E.	2 39,2	7 20,47	1 35	4 40,27	1 30 23,27	29,67	52,5	52
4	W.	7 32,6	7 57,95	30	0 25,35	25,39	28,97	48	48,5
6	W.	8 14,0	8 39,97		25,97	26,01	29,33	50,5	51,5
7	E.	8 43,5	8 18,82		24,68	24,72	29,68	62	63,5

Observed Zenith Distance of 17 Draconis.

Point on the Limb 0° 10′ North.

Day of the Month.	Face of the Arch, W. or E	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
May 30	W.	12 32,7	8 15,13	0 10	4 17,57	0 5 46,03	29,37	49,5	51,5
June 4	E.	8 34,6	7 48,95	5	0 44,65	44,72	28,97	48	48,5
6	W.	7 24,2	8 13,52		48,32	48,40	29,33	50,5	51,5

Observed Zenith Distance of 12 ι Draconis.

Point on the Limb 6° 25 North.

Day of the Month.	Face of the Arch, W. or E	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
May 31	E.	9 12,0	8 44,44	6 25	0 26,56	6 25 26,61	29,44	49	50
June 1	W	7 38,0	8 9,55		30,05	30,60	29,54	50,5	50,5
4	W.	6 46,1	7 21,8		34,70	34,76	29,0	48	48,5
5	E.	8 45,5	8 12,4		33,10	33,15	29,17	54,5	52
6	W.	7 49,4	8 26,3		35,90	35,96	29,33	51	51,5
7	E.	9 39,6	9 9,7		29,90	29,95	29,69	67,5	68,5

Observed Zenith Distance of 53 Draconis.

Point on the Limb 3° 20′ North.

Day of the Month.	Face of the Arch, W. or E	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
June 2	E.	6 52,6	7 25,05	3 20	0 31,45	3 19 28,50	29,64	50,5	51,5
4	W	7 56,3	6 31,57		24,73	35,23	29,0	46,5	48
7	W.	14 42,0	13 13,48		28,52	31,43	29,58	51	52
9	E.	5 52,6	7 25,33		31,73	31,88	29,66	61	62

Observed Zenith Distance of 1 ϰ *Cygni.*

Point on the Limb 0° 15′ South.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.			Above.	Below.
June 2	E.	9 26,6	6 52,71	0 15	2 32,89	12 28,46	29,63	50	52
4	W.	5 22,1	7 57,71		35,60	26,14	29,0	46,5	48
7	W.	10 53,5	13 29,75		35,25	26,49	29,56	51,5	52,5
9	E.	4 54,9	7 26,2		30,30	31,45	29,66	61	62

Observed Zenith Distance of 10 ι *Cygni.*

Point on the Limb 1° 55′ South.

June 2	E	4 41,0	8 50,18	1 50	4 10,08	1 54 6,49	29,63	50	52
4	W.	7 31,4	8 28,6	55	0 66,20	3,71	29,0	46,5	48
7	W.	17 57,0	13 51,3	50	4 5,70	2,10	29,56	51,5	52,5
9	E.	7 58,2	7 4,77	55	0 53,43	6,98	29,66	61	62

Observed Zenith Distance of γ *Ursæ.*

Point on the Limb 1° 30′ North.

May 31	E.	9 24,8	6 20,87	1 30	3 3,93	1 33 1,23	29,45	55	58
June 1	W.	5 2,5	8 12,63		10,13	7,44	29,45	59,5	59,5
6	E.	11 22,8	8 16,42		6,38	3,68	29,26	59	58,5
9	W.	10 26,8	13 36,0		9,20	6,51	29,7	79	73,5

Observed Zenith Distance of η *Ursae.*

Point on the Limb 2° 55′ South.

May 31	E.	7 13,5	28,52	2 55	1 14,98	56 14,10	29,44	50,5	50,5
June 1	W	9 21,3	13,62		7,68	6,79	29,54	50,5	52,5
2	E.	1 37,1	7 57,66	50	6 20,56	15,19	29,68	52	54
3	W.	8 42,5	7 35,15	55	1 7,35	6,46	29,53	53	53,5
4	W.	14 31,9	8 20,32	50	6 11,58	6,19	28,93	48,5	49,5
6	E.	7 18,1	8 33,38	55	1 15,28	14,34	29,32	53	54,5
7	W.	11 2,9	9 51,33		9,57	8,68	29,58	55	57
9	E.	8 8,0	9 22,95		14,95	14,07	29,69	67	68

Observed Zenith Distance of ζ Ursæ.

Point on the Limb 2° 45′ North.

Day of the Month.	Face of the Arch, W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
May 31	E.	4 24,6	6 22,23	2 45	1 56,63	2 43 4,18	29,44	50	53
June 1	W.	10 5,6	8 15,62		48,98	11,43	29,54	59,5	59,5
2	E.	1 44,7	3 41,05		55,35	5,46	29,68	52	54
3	E.	6 26,0	8 23,45		56,45	4,36	29,53	53	53,5
4	W.	10 11,2	8 20,57		49,63	11,15	28,93	50	50,5
5	W.	9 0,9	7 13,07		46,83	14,00	29,17	51,5	52
6	E.	6 32,2	8 28,35		55,15	5,26	29,32	53	54,5
7	W.	11 44,7	9 53,72		49,98	10,83	29,58	55	57
9	E.	7 10,0	9 4,9		53,90	6,91	29,69	67	68

Observed Zenith Distance of 85 ι Herculis.

Point on the Limb 7° 5′ South.

June 4	W.	15 12,8	13 50,74	7 5	1 21,06	7 6 20,19	28,96	48	49
5	E.	5 47 0	7 15,0		27,00	26,14	29,17	51	51
9	E.	6 37,6	8 4,53		25,93	25,07	25,93	62	63

Observed Zenith Distance of υ Herculis.

Point on the Limb 6° 35′ South.

May 30	W.	10 9,0	6 39,48	35	28,52	6 38 25,86	29,36	49,5	51,5
June 2	E.	4 32,7	3,5		29,80	27,14	29,67	49,5	51,5
4	W.	11 4,4	35,98		27,42	24,76	29,0	52	54
5	E.	4 25,9	54,97		31,07	28,41	29,17	48	48,5
6	W.	11 54,0	23,52		24,48	21,88	29,33	51,5	52
7	E.	6 36 4	9,38		31,98	29,39	29,58	50,5	51,5
9	E.	5 26,8	8 56,45		29,65	26,99	29,68	62	63,5

Observed Zenith Distance of τ Herculis.

Point on the Limb 6° 25′ South.

May 30	W.	9 11,3	7 44,9		25,40	6 26 24,54	29,36	49,5	51,5
June 4	E.	6 22,8	7 55,22		32,42	31,57	28,97	48,	48,5
6	W.	9 51,4	8 28,05		23,35	22,49	29,33	50,5	50,5

Observations made at Burleigh Moor, to determine the Zenith Distance of β Draconis.

Point on the Limb 2° 5′ South.

Day of the Month.	Face of the Arch. W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
Juy 6	W.	14 32,9	12 20,17	2 5	2 12.73	2 7 10,95	29,25	51	51
7	E.	8 13,4	10 29,25		15,85	14,07	28,95	54,5	54,5
9	E.	5 40,5	8 1,93		20,43	18,66	29,55	59	57,5
10	E.	5 58,0	8 12,20		13,20	11,42	29,59	65	62
11	W.	9 56,6	7 49,6		7,00	5,21	29,29	55	56,5
16	W.	9 47,2	7 39,40		7,80	5,29	29,1	51,5	51,5
18	W.	10 24,5	8 18,08		6,42	4,63	29,25	59	56
19	E.	5 47,1	8 3,91		15,81	14,03	29,35	56	56,5

Observed Zenith Distance of γ Draconis.

Point on th Limb 3° 5′ South.

July 6	W.	9 11,5	11 14,9	3 5	2 3,40	3 2 46,40	29,25	51	51
7	E.	11 19,9	10 32,47		1 46,43	3 14,47	28,95	54,5	54,5
10	E.	10 16,0	8 25,8		49,20	11,22	29,59	65	62,5
11	W.	5 47,3	7 43,92		55,62	5,18	29,29	56,5	55
16	W.	5 7,5	7 4,24		55,74	5,07	29,1	51,5	51,5
18	W.	6 1,5	7 55,13		53,63	6,18	29,25	59	56
19	E.	9 36,6	7 46,61		48,99	11,83	29,36	56,5	55

Observed Zenith Distance of 45 d Draconis.

Point on the Limb 2° 20′ North.

July 7	E.	10 34,9	10 51,25	2 20	16,55	19 43,42	28,95	54,5	54,5
9	E.	7 47,0	8 2,91		14,91	45,07	29,53	57	54
10	E.	8 31,1	8 43,10		12,0	47,98	29,59	65	62
16	W.	7 9,5	7 3,26		6,24	53,75	29,0	50	51

Observed Zenith Distance of 46 c Draconis.

Point on the Limb 0° 45′ North.

July 7	E.	12 34,0	11 2,80	0 45	1 31,20	0 46 30,25	28,95	54,5	54,5
9	E.	9 26,2	7 52,21		32,99	32,14	29,53	57	54
10	E.	9 50,9	8 16,26		34,64	33,79	29,59	64,5	62
11	W.	5 16,1	6 55,57		39,47	39,63	29,25	56,5	56,5
16	W.	5 23,0	7 6,40		42,40	41,57	29,0	50	51

Observed Zenith Distance of 51 Draconis.

Point on the Limb 1° 30′ South.

Day of the Month.	Face of the Arch W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer,	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
July 9	E.	10 0,0	7 58,27	1 30	2 0,73	1 28 1,07	29,53	57	54
10	E.	10 25,0	8 22,50		2,50	0,70	29,59	65	52
11	W.	5 13,0	7 17,55		4,55	27 59,30	29,25	55,5	55
16	W.	4 52,5	7 1,52		8,02	53,77	29,2	51	51,5
19	E.	9 44,4	7 40,50		3,90	57,90	29,36	56	56

Observed Zenith Distance of 17 Draconis.

Point on the Limb 1° 15′ South.

Day of the Month.	Face of the Arch W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer Above.	Below.
July 4	W.	11 32,5	11 29,9	1 15	0 2,60	1 15 2,61			
6	W.	11 24,5	11 20,59		3,91	3,92	29,25	51,5	51
7	E.	10 15,5	10 23,75		8,25	8,26	28,95	54,5	54,5
9	E.	8 27,8	8 34,73		6,93	6,96	29,52	61	58
10	E.	8 1,0	8 8,35		7,35	7,36	29,32	66,5	66,5
11	W.	8 20,6	8 20,48		0,12	0,12	29,29	59	56
12	E.	7 50,1	7 56,22		6,12	6,13	29,38	60	59
16	W.	7 33,1	7 35,57		2,47	2,47	29,0	54	54

Observed Zenith Distance of 12 ι Draconis.

Point on the Limb 5° 5′ North.

Day of the Month.	Face of the Arch W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer Above.	Below.
July 9	E.	8 27,5	8 51,0	5 5	0 23,50	5 4 36,46	29,52	61	58
10	E.	8 51,5	9 2,8		10,30	49,68	29,32	66,5	66,5
16	W.	7 29,6	7 12,45		16,15	43,82	29,35	56	56,5

Observed Zenith Distance of 53 Draconis.

Point on the Limb 2° 0′ North.

Day of the Month.	Face of the Arch W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer Above.	Below.
July 7	E.	13 35,4	10 51,73	1 55	+2 42,67	1 57 40,93	28,95	54,5	54,5
9	E.	5 58,9	8 26,45	2 0	−2 26,55	35,21	29,53	57	54
10	E.	6 28,2	8 47,11		18,91	42,86	29,59	65	62
11	W.	9 36,5	7 19,0		17,50	42,27	29,25	55,5	55
16	W.	9 9,0	6 54,47		13,53	48,25	29,2	51	51

Observed Zenith Distance of μ Draconis.

Point on the Limb 0° 10′ North.

Day of the Month.	Face of the Arch. W. or E.	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.	° ′	rev. div.	° ′ ″		Above.	Below.
July 7	E.	13 55,5	9 20,72	0 5	4 34,78	0 9 30,23	28,05	54,5	54,5
9	E.	7 57,5	8 27,22		28,72	29,31	29,52	61,5	58
10	E.	7 48,9	8 17,87		27,97	31,98	29,59	64,5	62
11	W.	8 26,4	8 5,53		20,87	39,10	29,29	59	56
16	W.	7 32,5	7 12,75		19,75	40,22	29,1	52	52

Observed Zenith Distance of 1 κ Cygni.

Point on the Limb 1° 35′ South.

July 9	E.	10 16,8	8 34,17	1 35	1 41,63	1 33 19,20	29,53	57	54,5
10	E.	10 39,4	8 57,13		41,27	18,56	29,59	65	62,5
11	W.	6 7,5	7 53,29		45,70	15,13	29,25	55,5	55
16	W.	5 22,4	7 13,0		49,60	11,32	29,20	51	51

Observed Zenith Distance of 10 ι Cygni.

Point on the Limb 3° 15′ South.

July 6	W.	10 25,8	10 33,83	3 15	0 8,03	3 14 51,96	29,26	49,5	49,5
9	E.	8 22,4	8 18,50		3,90	56,09	29,53	57	54
10	E.	9 28,3	9 21,41		6,89	53,10	29,59	65	62
11	W.	7 40,2	7 48,50		8,30	51,70	29,25	55,5	55,5
16	W.	6 49,4	7 3,43		12,03	46,94	29,20	51	51

Observed Zenith Distance of α Persei.

Point on the Limb 5° 25′ South.

July 14	W.	7 31,5	7 49,13	5 25	0 17,63	5 24 42,34	29,0	65	62
15	W.	6 53,0	7 12,55		18,55	41,42	29,20	64	60
19	E.	6 24,6	6 9,55		15,05	44,92	29,31	64,5	62,5

Observed Zenith Distance of 27 γ Cassiopeia.

Point on the Limb 5° 5′ North.

Day of the Month.	Face of the Arch W. or E	Plumb Line.	Observation of the Star.	Zenith Distance in Revolutions and Parts.		Zenith Distance reduced.	Barometer.	Thermometer.	
1806		rev. div.	rev. div.		rev. div.	° ′ ″		Above.	Below.
July 15	W.	6 39,8	7 9,3	5 5	3 28,50	0 5 28,50	29,16	58	55
17	W.	7 38,8	7 11,48		23,32	27,36	29,04	53	53,5
19	W.	5 10,1	5 44,77		34,67	34,73	29,86	54	55,5

Observed Zenith Distance of 24 η Cassiopeia.

Point on the Limb 2° 15′ North.

July 15	W.	9 42,3	7 24,43	2 15	2 17,87	2 12 43,90	29,16	58	55
17	W.	5 16,0	7 33,91		17,90	43,86	29,06	53	53,5
19	W.	8 27,4	6 5,17		22,83	39,45	29,26	54	55,5

ART. II. *Reduction of the Observations made on certain Stars at Delamere Forest, in Cheshire, and Burleigh Moor, near the Tees Mouth, in Yorkshire, from the respective Days on which they were made, to the first of January 1806; the Equations being those for Aberration, Nutation, semi-annual solar Equation, Precession, and Refraction, with the Zenith Distances of the Stars deduced therefrom.*

Reduction of the Observations made at Delamere Forest.

γ *Draconis, South.*

Face of the Limb West.	Face of the Limb East.	
May 30—1° 2′ 14,″75	June 2—1° 42′ 20″,07	Zenith dist. 1° 42′ 16″,42 (refr. &c.) 1° 42′ 18″,07
June 4 13,08	5 17,79	+1,672 Mean refr.
7 14,60	9 18,25	—0,034 Temperature.
Mean 1 42 14,14	Mean 1 42 18,70	+0,031 Expansion of axis.
		1 42 18,09

β *Draconis, South.*

May 30—0° 46′ 15″,84	June 5—0° 46′ 20″,09	Zenith dist. 0° 46′ 18″,3 (refr. &c.) 0° 46′ 19″,036.
4 16,17	9 21,02	
6 15,89		
7 16,30		
Mean 0 46 16,05	Mean 0 46 20.55	

45 *d Draconis, North.*

June 4—3° 40′ 44″,28	June 2—3° 40′ 38″,72	Zenith dist. 3° 40′ 40″,9 (refr. &c.) 3° 40′ 44″,78.
7 41,36	9 39,27	
Mean 3 40 42,82	Mean 3 40 38,99	

46 *c Draconis, North.*

June 4—2° 7′ 30″,78	June 2—2° 7′ 26″,10	Zenith dist. 2° 7′ 29″,27 (refr. &c.) 2° 7′ 31″,34.
7 29,46	9 30,74	
Mean 2 7 30,12	Mean 2 7 28,42	

51 *Draconis, South.*

June 7—0° 7′ 4″,33 June 9—0° 7′ 8″,56 Zenith dist. 0° 7′ 6″,4 (refr. &c.) 0° 7′ 6″,48.

μ Draconis North.

Face of the Limb West.	Face of the Limb East.	
June 4—1° 30′ 23″,70	June 2—1° 30′ 22″,30	Zenith dist. 1° 30′ 22″,83 (refr. &c.) 1° 30′ 24″,29.
6 23,75	9 21,60	
Mean 1 30 23,72	Mean 1 30 21,95	

17 *Draconis, North.*

May 30—0° 5′ 52″,32	June 4—0° 5 49″,56	Zenith dist. 0° 5′ 50″,98 (refr. &c.) 0° 5′ 51″,08.
6 52,49		
Mean 0 5 52,40		

1 *κ Cygni, South.*

June 4—0° 12′ 21″,62	June 2—0° 12′ 23″,38	Zenith dist. 0° 12′ 24″,32 (refr. &c.) 0° 12′ 24″,51.
7 23,79	9 28,53	
Mean 0 12 22,7	Mean 0 12 25,95	

10 *ι Cygni, North.*

June 4—1° 53′ 59″,12	June 2—1° 54′ 1″,16	Zenith dist. 1° 54′ 0″,55 (refr. &c.) 1° 54′ 2″,216.
7 58,17	9 3,95	
Mean 1 53 58,64	Mean 1 54 2,56	

γ Ursæ, North.

June 1—1° 33′ 8″,25	May 31—1° 33′ 2″,18	Zenith dist. 1° 33′ 5″,42 (refr. &c.) 1° 33′ 6″ 93.
9 6,99	6 4,28	
Mean 1 33 7,62	Mean 1 33 3,23	

79 *ζ Ursæ, North.*

June 1—2° 43′ 13″,63	May 31—2° 43′ 6″,76	Zenith dist. 2° 43′ 10″,51 (refr. &c.) 2° 43′ 13″34.
4 13,18	June 2 7,83	
5 15,91	4 6,52	
7 12,35	6 6,98	
	9 8,21	
Mean 2 43 13,77	Mean 2 43 7,25	

η Ursæ, South.

June 1—2° 56′ 2″,85	May 31—2° 56′ 9″,24	Zenith dist. 2° 56′ 7″,13 (refr. &c.) 2° 56′ 9″,96.
3 2,72	June 2 11,33	
4 2,71	6 11,24	
7 5,78	9 11,23	
Mean 2 56 3,51	Mean 2 56 10,76	

85 *ι Herculis.*

June 4—7° 6′ 15″,58	June 5—7° 6′ 23″,09	Zenith dist. 7° 6′ 19″,03 (refr. &c.) 7° 6′ 25″,89.
	9 21,90	
	Mean 7 6 22,49	

υ *Herculis, South.*

Face of the Limb West.	Face of the Limb East.	
May 30—6° 38′ 16″,75	June 2—6° 38′ 19″,01	Zenith dist. 6° 38′ 18″,74 (refr. &c.) 6° 38′ 25″,14.
June 4 17,46	5 21,36	
6 15,03	7 22,95	
	9 21,05	
Mean 6 38 16,41	Mean 6 38 21,09	

22 τ *Herculis.*

May 30—6° 26′ 18″,35	June 4—6° 26′ 26″,84.	Zenith dist. 6° 26′ 22,″56 (refr. &c.) 6° 26′ 28″,78.
18,23		
Mean 6 26 18,29		

Reduction of the Observations made at Burleigh Moor.

γ *Draconis.*

July 11—3° 3′ 11″,71	July 7—3° 3′ 19″,83	Zenith dist. 3° 3′ 16″,03 (refr. &c) 3° 3′ 19″,09.
16 12,99	10 17,13	
18 14,74	19 19,82	
Mean 3 3 13,15	Mean 3 3 18,92	

β *Draconis.*

July 6—2° 7′ 16″,14	July 7—2° 7′ 19″,55	Zenith dist. 2° 7′ 17″37 (refr. &c.) 2° 7′ 18″,5.
11 11,79	9 24,69	
16 13,17	10 17,20	
18 13,04	19 22,08	
Mean 2 7 13,71	Mean 2 7 20,88	

45 *d Draconis.*

July 16—2° 19′ 44″,78	July 7—2° 19′ 37″,45	Zenith dist. 2° 19′ 41″,71 (refr. &c.) 2° 19′43″,96.
	9 38,47	
	10 40,03	
	Mean 2 19 38,65	

46 *c Draconis.*

July 11—0° 46′ 32″,20	July 7—0° 46′ 24,22	Zenith dist. 0° 46′ 28″,9 (refr. &c.) 0° 46′ 29″,69.
16 32,44	9 25,45	
	10 26,78	
Mean 0 46 32,32	Mean 0 46 25,48	

51 *Draconis, South.*

July 11—1° 28′ 4″,881	July 9—1° 28′ 7″,83	Zenith dist. 1° 28′ 5″,80 (refr. &c.) 1° 28′ 7″,15.
16 3,12	10 7,83	
	19 7,17	
Mean 1 28 4,00	Mean 1 28 7,61	

17 Draconis, South.

Face of the Limb West.				Face of the Limb East.				
July 4—1°	15′	6″,24		July 7—1°	15′	12″,91		Zenith dist. 1° 15′ 9″,79 (refr. &c.) 1° 15′ 11″,04.
6		7,33		9		12,08		
11		5,79		10		12,79		
16		9,24		12		11,96		
Mean 1	15	7,15		Mean 1	15	12,44		

23 μ Draconis.

July 11—0°	9′	29″,31	0°	9	21,89		Zenith dist. 0° 9′ 25″,53 (refr. &c.) 0° 9′ 25″,48.
16		28,66			21,47		
Mean 0	9	28,98	Mean 0	9	21,68		

1 κ Cygni.

July 11—1°	33	26″,52	July 9—1°	33′	26,50	Zenith dist. 1° 33 24,31 (refr. &c.) 1° 33′ 25″,87.
16		21,05	10		26,21	
Mean 1	33	22,28	Mean 1	33	26,36	

ART III. *Amplitudes of the Celestial Arc comprehended by the Stations on Dunnose and Burleigh Moor, near the Mouth of the Tees.*

THE several observations in the preceding article, are reduced to the first day of January, 1806: Those made on Dunnose in 1802, are reduced to the beginning of the same year, and must be brought up to the same period. For the Zenith Distances of those Stars at that Station, see the Account of the Measurement of an Arc of the Meridian, p. 90.

β Draconis	-	1	49	53,38	North from the Zenith.
γ ———	-	0	53	53,83	N.
45 *d.* ———	-	6	16	58,18	N.
46 *c.* ———	-	4	43	42,44	N.

51	Draconis	-	2° 29′ 4,″69 N.
17	———	-	2 42 3,18 N.
μ	———	-	4 6 38,97 N.
1 κ	Cygni	-	2 23 47,81 N.
10 ι	———	-	0 42 9,64 N.

At Burleigh Moor the Zenith distances of the same stars for the same period are

β	Draconis	-	2° 7′ 18″,51 South.
γ	———	-	3 3 19,09 S.
45 *d.*	———	-	2 19 43,96 North.
46 *c.*	———	-	0 46 29,69 N.
51	———	-	1 28 7,15 S.
17	———	-	1 15 11,04 S.
μ	———	-	0 9 25,48 N.
1 κ	Cygni	-	1 33 25,87 S.

The amplitudes of the arc resulting from these determinations are as follow: viz.

By β	Draconis	-	3° 57′ 11″,89
γ	———	-	12,92
45 *d.*	———	-	14,22
46 *c.*	———	-	12,75
51	———	-	11,84
17	———	-	14,22
μ	———	-	13,49
1 κ	Cygni	-	13,68

The mean of which gives 3° 57′ 13″,1, being the difference of latitude between the parallels of Dunnose and Burleigh Moor.

ART. IV. *Amplitudes of the Celestial Arc comprehended by the Stations Dunnose and Delamere Forest.*

At Delamere Forest, the Zenith Distances of certain principal Stars are as follows: viz.

			°	′	″	
γ	Draconis	-	1	42	18,07	South.
β	———	-	0	46	19,04	S.
45 *d.*	———	-	3	40	44,78	North.
46 *c.*	———	-	2	7	31,34	N.
51	———	-	0	7	6,48	S.
17	———	-	0	5	51,08	N.
1 κ	Cygni	-	0	12	25,51	S.
10 ι	———	-	1	54	2,22	S.

These Zenith distances, respectively applied to the Zenith distances of the same stars observed at Dunnose, give the several amplitudes as follow:

			°	′	″
By β	Draconis	-	2	36	12,42
γ	———	-			11,9
45 *d.*	———	-			13,4
46 *c.*	———	-			11,1
51	———	-			11,17
17	———	-			12,1
1 κ	Cygni	-			13,32
10 ι	———	-			11,86

The mean of which gives 2° 36′ 12″,2 being the difference in latitude between Dunnose and the Station on Delamere Forest.

ART. V. *Calculation of the Meridional Distance between Dunnose and Burleigh Moor.*

At Burleigh Moor, on the 28th of June, in the evening, the pole star, when at its greatest apparent western elongation from the meridian, was observed, and the angle taken between it and the staff at Redcar Sands. This angle was found to be 4° 32′ 17″.

In like manner, when the star, on the morning of the 29th, was observed when at its greatest apparent eastern elongation from the meridian, the angle between the star and staff was found to be 10° 30′ 14″, the mean of the two results, gives 7° 31′ 15″5 for the true bearing of the staff from the meridian of Burleigh Moor.

The angle between the station on Easington Heights, and the staff at Redcar, was found to be 100° 31′ 37″,5, subtracting from this angle the bearing of the staff from the meridian, we get 86° 59′ 38″ for the angle between Easington Station and the meridian of Burleigh Moor in a South direction.

The bearings of the sides of the Triangles, used in finding the meridional distance from Burleigh Moor to Dunnose, from the several parallels to the meridian of Burleigh Moor, will be as follow:

	°	′	″	
Botton Head from Burleigh Moor -	9	7	2	SW.
Hemingbrough Spire from Botton Head	5	35	4,5	SE.
Clifton Beacon from Hemingbrough Spire	24	50	42	SW.
Hathersage from Clifton Beacon -	62	0	3	SW.
Orpit from Hathersage -	5	18	6	SE.
Bardon Hill from Orpit - -	21	13	23	SE.
Arbury Hill from Bardon Hill -	7	35	11	SE.

		°	′	″	
Brill from Arbury Hill	- -	12	22	34	S. E.
Whitehorse Hill from Brill	- -	50	24	0	S. W.
Highclere from Whitehorse Hill	-	27	39	53,5	S. E.
Butser Hill from Highclere	- -	34	12	30,5	S. E.
Dunnose from Butser Hill	- -	21	6	26	S. W.

These bearings give the distances from the meridian of and perpendicular at Burleigh Moor as follows:

	Feet.		Feet.
Botton Head from the meridian	9658,8	W.	60186,4 from the
Hemingbrough Spire -	13145	E.	293404,2 perpen.
Clifton Beacon -	39203,2	W.	406462,9
Hathersage -	120635,6	W.	449759,8
Orpit - -	111242,2	W.	550982,9
Bardon Hill -	62048,2	W.	677661,5
Arbury Hill -	38228,2	W.	856508,2
Brill - -	6822,8	W.	999633,1
Whitehorse Hill - -	119782,4	W.	1093081,4
Highclere - -	69376,7	W.	1189233,3
Butser Hill - -	13847	E.	1311654,3
Dunnose - -	36778	W.	1442802,9

In the account of the measurement of an arc of the meridian, page 55, the distance of Clifton Beacon (Beacon Hill) from the perpendicular to the meridian of Dunnose, is shewn to be 1036334,4 feet, and its distance from the same meridian, is stated in the following page as being 4770 feet. If the calculation there specified, be carried on from Clifton Beacon to Burleigh Moor, through the same triangles as used in determining the distance from Burleigh Moor to the point, where a line from

Dunnose parallel to the perpendicular, cuts the meridian of that station, we shall have the following bearings for computation, viz.

	°	′	″	
Clifton Beacon from Hathersage	61	52	17	N. E.
Hemingbrough Spire from Clifton Beacon	24	42	56	N. E.
Botton Head from Hemingbrough Spire	5	42	50,5	N. W.
Burleigh Moor from Botton Head -	8	59	15	N. E.

Assuming the distance of Clifton Beacon from the meridian of Dunnose as above mentioned, to be 4770 feet, and from the perpendicular at that station as 1036334,4 feet, we shall get

Hemingbrough Spire from the Meridian	47322,7 E.	1149511,1 from the perpendicular.
Botton Head - - -	23992,3 E.	1382676,6
And Burleigh Moor - -	33514,8 E.	1442884,7

Now the latitude of Dunnose is $\frac{7}{17}''$ greater than the latitude of the point, where the parallel from that station, cuts the meridian of Burleigh Moor, $\frac{7}{17}''$ of a second in the heavens, corresponds to 42 feet on the surface of the earth; hence 1442802,9+42=1442845 feet may be taken for the distance between the parallels of Burleigh Moor and Dunnose, as derived from the first mode of calculation.

In like manner, the latitude of Burleigh Moor being $\frac{11}{30}''$ less than the latitude of the point, where a line from that station parallel to the perpendicular at Dunnose, cuts its meridian, we shall have 1442884,7—37,4=1442847,3 feet, for the distance between the parallels, as determined by carrying up the calculations with the direction of the meridian observed at Dunnose. See the 1st volume, page 291.—These results differ something more than two feet, and, at a mean, may be taken as 1442846 feet, to which adding 6,5 (the distance of the station from the point where the sector was set up at Dunnose), we get 1442852,5 feet for the true meridional distance.

In the account of the measurement of an arc of the meridian, the difference of latitude between the parallels of Dunnose and Clifton in Yorkshire, is shewn to be 2° 50′ 23″,38 (see page 104 of that Account), the terrestrial subtence of the arc being 1036337 feet. See page 107 of the same Account.

If the former operation, as well as the present one, be supposed correct, their results must be consistent, unless we suppose the plumb line of the sector at Burleigh Moor, to have been affected by attraction, arising from the earth's unequal density, in a greater or less degree than at Clifton Beacon.

Setting aside the consideration of elliptical arches not being proportionate to the angles formed by the meeting of the verticals, or intersections of the radii of curvatures at their extremities, yet in the present case, the total arch not exceeding two degrees, we may use a statement of simple proportion. Taking therefore the terrestrial arc between Dunnose and Clifton as 1036337, and its subtence in the Heavens as 2° 50′ 23″ 38; and also the total meridional distance between the parallels of Dunnose and Burleigh Moor as 1442852,5 feet, we shall have

1036337 feet : 2° 50′ 23″,38 (10223,″38) : : 1442852,5 feet : 14233″,6 = 3° 57′ 13″,6

the subtence of that arc, or the difference of latitude between those parallels. But this arc has been found by observation to be 3° 57′ 13″, 1, almost exactly the same as the computed result.

The length of the degree on the meridian at the middle point between Dunnose and Burleigh Moor, of which the latitude is 52° 35′ 45″, is 60823,8 fathoms. In the account of the former measurement (p. 108), the length of the degree in 52° 2′ 19″,8 is stated to be 60820 fathoms which is nearly the same. Were the earth an ellipsoid, the diameter of its polar and equatorial axes in the ratio of 229 to 230, the degree in 52° 34′ should be

nearly 60830 fathoms, if the length of that in 52° 2′ be taken 60820.

ART. VI. *Computation of the Distance between the Parallels of Latitude of Dunnose in the Isle of Wight, and Delamere Forest.*

When the great circular instrument was placed over the point at Delamere Forest, the direction of the meridian was observed. The bearing of the staff at Kelsall from the north meridian was found, as may be seen from the observations made at that station, to be 138° 1′ 7″. The angle between Ashley Heath and the same staff was also taken and seen to be 73° 24′ 31″,5; these two angles give 31° 25′ 38″,5 for the south-east bearing of Ashley Heath from the meridian of Delamere Forest. This bearing carried through the series of triangles connecting Delamere Forest with Black Down, a principal station in Dorsetshire, gives the bearings of the following sides from that meridian, viz.

		°	′	″	
Ashley Heath from Delamere Forest	-	31	25	38,5	S. E.
Brown Clay Hill from Ashley Heath	-	16	38	10	S. W.
Malvern Hills from Brown Clay Hill	-	23	25	12	S E.
Trelleg Beacon from Malvern Hills	-	32	14	58,5	S. W.
Dundry Beacon from Trelleg Beacon	-	6	37	9,75	S. E.
Mendip Hills from Dundry Beacon	-	19	4	46	S. E.
Ash Beacon from Mendip Hills	-	3	28	51,75	S. E.
Mintern from Ash Beacon	- -	5	22	58	S. E.
Black Down from Mintern	- -	10	30	53,5	S. W.

These Bearings with their respective sides give

Ashley Heath from the meridian	67472,1	E.	110418,2	from the
Brown Clay Hill -	19203,2	E.	279161	perpen.
Malvern Hills - - -	77902,2	E.	407476,5	

Trelleg Beacon - -	5075,3	W.	538989,9
Dundry Beacon - -	9628,2	E.	665692,9
Mendip Hill - -	32246,2	E.	731085,9
Ash Beacon - -	36896,2	E.	807525,7
Mintern - -	42446,6	E.	866431,5
Black Down - -	31546,3	E.	925158,5

The parallel of Black Down cuts the meridian of Delamere Forest 30 feet farther to the southward than the parallel to the perpendicular, therefore 925158 + 30 = 925188,5 feet, is the corrected distance between the parallels of latitude of the two stations.

The bearings of Mintern, Ash Beacon, Mendip, and Dundry Beacon from the parallels to the meridian and perpendicular at Blackdown, are given in the second volume, page 115. If the calculation be carried on from the side, Dundry Beacon and Mendip, through the same series of triangles as before used, we shall have

	°	′	″	
Trelleg Beacon from Dundry Beacon -	6	31	26	N. W.
Malvern Hills from Trelleg Beacon -	32	20	43	N. E.
Brown Clay Hill from Malvern Hill -	23	19	27	N. W.
Ashley Heath from Brown Clay Hill -	16	43	55	N. E.
Delamere Forest from Ashley Heath -	31	19	58	N. W.

These bearings, with their respective sides, and the distance from Dundry Beacon to the meridian and perpendicular, viz. 21488 feet W. and 259503 feet, give

	Feet.		Feet.	
Trelleg Beacon from the meridian	35980,2	W.	385230,2	from the perpendicular.
Malvern Hills - -	47261,4	E.	517612,2	
Brown Clay Hill - -	11250,8	W.	653225,7	
Ashley Heath - -	37288,9	E.	814689,7	
Delamere Forest -	30000,7	W.	925214,7	

From the meridional distance thus found (925214,7 feet)

thirty-four feet must be subtracted, the perpendicular at Dunnose, cutting the meridian 34 feet north of the parallel of Delamere Forest. Therefore 925214,7—34=925180,7 feet is the corrected distance. By calculating with the bearings, from Delamere Forest downwards, the distance has been found to be 925188,5 feet, giving a difference of 8 feet nearly between the two results; the mean 925184,6 feet, may be taken for the true meridian distance between the two stations.

The distance between the parallels of Blackdown and Dunnose is accurately 25005,3 feet. Therefore 925184,6+25005,3= 950189,9 feet is the true distance between the parallels of Black Down and Delamere Forest.

Now we have portions of two meridians, proceeding from the same Southern parallel; and running up, one the extent of 3° 57′ 13″,1, and the other of 2° 36′ 12″,2. If the surface of the earth in the seat of our operations be uniform in its meridional figure, the subtence of the arch between Dunnose and Delamere Forest should be nearly in the ratio of their amplitudes. This being the case, we shall have 1442852,5 feet (the meridional distance between Dunnose and Burleigh Moor): 3° 57′ 13″,1, its amplitude :: 950189,9 feet (the meridional distance between Dunnose and Delamere Forest: 2° 36′ 13″,2, the amplitude of its arc. From the observations made at the station in Delamere Forest, with the Zenith sector in 1806, combined with those at Dunnose in 1802, with the same instrument, it is found that the difference in latitude of those is 2° 36′ 12″,2, making a difference of 1″, between the calculated and observed amplitudes, constituting a difference, setting aside the consideration of a spheroidical figure of the earth of $\frac{4}{10}$ths of a second in one degree.— Perhaps, under the consideration of each meridional line being obtained independently of the other, and admitting that neither

of them can be measured with perfect accuracy, together with the chances of the amplitudes being in some small degree, either in excess or defect, we may consider the result as sufficiently consistent and satisfactory, and take 60823 fathoms in latitude 52° 34′, or the centre of England, as the length of one degree.

SECTION SIXTH.

ART. I. *Latitudes and Longitudes of Five principal Stations.*

At page 308 of the first volume of the Trigonometrical Survey, the latitude of Dunnose is stated to be 50° 37′ 7″,3, and its longitude 1° 11′ 36″, west from the meridian of Greenwich. The former is derived from the supposition of 50° 44′ 23″7 being the latitude of Beachy Head, and the latter from 15° 11′ 9″ being the longitude eastward of that station. On this occasion it is proper to remark that, the difference in longitude as well as latitude of those stations, was determined from observations made on the pole star.

The arc in the heavens corresponding to its terrestrial subtence between Dunnose and Greenwich, is 0° 51′ 31″,39. See the account of the measurement of an arc of the meridian, page 107. Taking the latitude of Greenwich as 51° 28′ 40″, we get 50° 37′ 8″,61 for the corrected latitude of the first mentioned station, differing 1″,3 from the previous deduction.

The arc between Dunnose and Clifton Beacon, in Yorkshire, see the account of the former measurement, page 107, is 2° 50′ 23″,38 ; therefore 50° 37′ 8″,61 + 2° 50′ 23″,38 = 53° 27′ 31″,99 is the latitude of Clifton.

At page 57 of the same account, the bearings of the stations connecting Clifton Beacon and Dunnose, from the parallels to the meridian of the former, are given, and these bearings, which it will be necessary to repeat on another occasion, give 4917 feet for the distance of Dunnose from the meridian of Clifton. This

distance, using 61182 fathoms for the length of the degree perpendicular to the meridian in latitude 50° 41′, combined with the latitude of Dunnose as just found, gives 1′ 16″,5 the longitude of Clifton west from Dunnose. Therefore 1° 11′ 36″,+1′ 16″,5 =1° 12′ 52″,5, is the longitude of Clifton west from the meridian of Greenwich, 1° 11′ 36″ being the longitude of Dunnose.

The amplitude of the celestial arc, corresponding to the difference of latitude between Dunnose and Burleigh Moor, as shewn in a previous article, is 3° 57′ 13,″1. This, added to the latitude of Dunnose, gives 54° 34′ 21″,7 for that of Burleigh Moor.

In the former article, the distance from the parallel at Dunnose to the meridian of Burleigh Moor, is 36778 feet. This, calculating with the latitude of Dunnose, and 61182 fathoms for the length of the degree perpendicular to the meridian, gives 9′ 31″,6 for the longitude of Burleigh Moor east from Dunnose. Therefore 1° 11′ 36″—9′ 31″,6=1° 2′ 4″,4, is the longitude of that station west from Greenwich.

The latitude of Dunnose is 50° 37′ 8″,61. The difference between the parallels of that station and Blackdown in Dorsetshire, is 4′ 6″5; (see the second volume, page 90), therefore 50° 37′ 8″,6+4′ 6″5=50°41′ 15″,11 is the latitude of Blackdown, which in the account of 1801, is stated from calculation to be 50° 41′ 13″8. The subtense of the arc, contained by the parallels of Dunnose and Delamere Forest, has been shewn in a foregoing article, to be 2° 36′ 12″,2, therefore 50° 37′ 8″,6+2° 36′ 12′2=53° 13′ 20″,8 is the latitude of the station on Delamere Forest.

The distance of the parallel at Black Down, from the meridian of Delamere Forest, is 31546,3 feet. This has been shewn in a former page. Taking 61182 fathoms for the length of the degree

perpendicular to the meridian, and using 50° 41′ 15″ for the latitude of Black Down, we get 8′ 8″,4 for the longitude of Delamere Forest west from Black Down. The longitude of Black Down is 2° 32′ 22″,4, see the second volume, page 91. Therefore 2° 32′ 22″,4+8′ 8″4=2° 40′ 30″,8, is the longitude of the station on Delamere Forest west from the meridian of Greenwich.

In a subsequent article, specifying the bearing and distances of the several stations from their respective meridians and perpendiculars, it will be shewn that Moel Rhyddlad, in Anglesea, is 406629,7 feet from the meridian of Delamere Forest, and 62475,3 feet north from the perpendicular at that station. These distances converted into their correspondent arcs, and used as *data*, give 53° 22′ 45″,38 for the latitude, and 1° 51′ 21,″1 for the longitude west from Moel Rhyddlad. The longitude of Delamere Forest is 2° 40′ 30″,8. Therefore 2° 40′ 30″.8+1° 51′ 21″,1=4° 31′ 51,″9 is the longitude of Moel Rhyddlad west from the meridian of Greenwich.

The latitudes and longitudes of these important stations, brought into one point of view, will be as follow.

	Latitude.	Longitude.	
Dunnose - -	50° 37′ 8,″6	1° 11′ 36″	W.
Clifton Beacon	53 27 32	1 12 52,5	W.
Burleigh Moor	54 34 21,7	1 2 4,4	W.
Delamere Forest	53 13 20,8	2 40 30,8	W.
Moel Rhyddlad	53 22 45,4	4 31 51,9	W.

ART. II. ***Bearings and Distances of the several Stations from the Parallels and Perpendiculars to their respective Meridians.***

Meridian of Greenwich.

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Lilleyhoe	Royston	65 11 46 NE	11716 W	204872 N
Lidlington		88 55 23 NE		
Royston	Orwell	11 20 3 NE	3139 W	247664 N
Lilleyhoe		46 44 22 NE		
Royston	Balsham	62 18 6 NE	71083 E	248339 N
Orwell		89 28 42 NE		
Orwell	Maddingly	35 27 58 NE	14148 E	271932 N
Balsham		67 29 29 NW		
Balsham	Newmarket	39 54 6 NE	101844 E	285127 N
Orwell		70 21 39 NE		
Newmarket	Ely Minster	35 12 21 NW	61891 E	341755 N
Balsham		5 37 15 NW		
Newmarket	Brandon	35 54 15 NE	145203 E	345020 N
Ely Minster		87 45 12 NE		
Brandon	Littleport	78 0 30 NW	69583 E	361080 N
Newmarket		23 0 49 NW		
Maddingly	Northy	15 42 33 NE	30070 E	328539 N
Balsham		27 5 5 NW		
Bow Brickhill	Brogborough	51 14 35 NE	133800 W	204635 N
Lilleyhoe		56 8 17 NW		
Bow Brickhill	Hill Farm	43 16 24 SE	140324 W	178714 N
Brogborough		14 7 45 SW		
Bow Brickhill	Horsemoor Hill	83 7 44 SE	14305 W	189517 N
Brogborough		32 10 10 SW		

The Bearings of the Stations Lilleyhoe and Lidlington, and Bow Brickhill and Lilleyhoe, from the parallels to the meridian of Greenwich, and their distances from the meridian and its perpendicular, as given at page 116, in the second volume, are the data on which the above results are founded, combined with the angles and sides of the proper Triangles.

Meridian of Clifton Beacon.

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Clifton Beacon -	Hathersage - Gringley Beacon -	61 51 50 SW 76 17 26 SE	81329 W 72929 E	43491 S 17791 S
Clifton Beacon - Hathersage -	Bradfield Point -	86 8 0 SW 2 27 20 NW	82954 W	5607 S
Clifton Beacon - Gringley Beacon -	North end of Base	68 57 52 NE 5 49 4 NW	68435 E	26319 N
Clifton Beacon - North end of Base -	South end of Base -	89 45 12 NW 8 40 36 SW	64461 E	278 N
Hathersage - Gringley Beacon -	Sutton Ashfield - -	44 34 55 SE 34 12 4 SW	369 W	125641 S
Hathersage - -	Orpit Heights -	5 26 19 SE	71691 W	144693 S
Orpit Heights -	Bardon Hill -	21 21 36 SE	22198 W	271254 S
Orpit Heights - Bardon Hill -	Holland Hill -	83 30 1 SE 21 37 23 NE	23664 E	155558 S
Hathersage - Weaver Hill -	Lords Seat -	85 37 37 NW 3 2¼ 20 NE	133662 W	39493 S
Arbury Hill - Bardon Hill -	Helkinton - -	29 2 7 NE 25 27 46 SE	34827 E	391004 S
Arbury Hill - Helkinton - -	Burrow Hill -	56 5 38 NE 19 19 29 SW	17844 E	439430 S
Holland Hill - - Bardon Hill -	Stathern Point -	47 9 32 SE 6 16 47 NE	85053 E	212486 S
Stathern Point - Helkinton - -	Tilton on the Hill -	4 31 52 SW 24 43 1 NE	78408 E	296328 S
Bardon Hill - Stathern Point -	Cropwell Bishop -	45 1 13 NE 74 45 49 NW	46987 E	202118 S
Stathern Point - Cropwell Bishop -	Bottesford - - -	18 48 20 NE 70 45 56 NE	94193 E	185647 S
Helkinton - Tilton on the Hill -	Naseby Field -	69 52 49 NE 15 40 53 SW	53777 E	384063 S
Cropwell Bishop - Holland Hill -	South end of proposed Base - -	81 9 9 SE 45 19 11 SE	75189 E	206509 S
Holland Hill - Stathern Point -	Lincoln Minster -	59 19 29 NE 26 8 6 NE	149652 E	80825 S

Meridian of Burleigh Moor.

Burleigh Moor	Easington Heights - Botton Head - Barnaby Moor - Wordeslow Hill - Brandon Down -	86 59 38 SE 9 7 2 SW 73 24 14 SE 38 33 34 NW 63 18 2 NW	42212 E 9659 W 17363 W 81057 W 34695 W	2217 S 60186 S 5175 S 101686 N 67743 N
Easington Heights Botton Head -	Looschoe Moor -	15 35 57 SW 87 10 17 SE	25542 E	61925 S

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Botton Head -	Hemingbrough Spire	5 36 4 SE	13145 E	293404 S
Botton Head - Hemingbrough Spire	Wilton Beacon -	24 55 15 SE 28 58 54 NE	59670 E	209399 S
Wilton Beacon - Hemingbrough Spire	Hunsley Beacon -	29 17 43 SE 82 19 27 NE	100216 E	281667 S
Hunsley Beacon - Hemingbrough Spire	Crowle Beacon -	37 21 7 SW 30 32 55 SE	47208 E	351120 S
Botton Head - Hemingbrough Spire	Hambleton Down -	25 46 19 SW 16 51 36 NW	37847 W	118576 S
Botton Head - Hambleton Down -	Black Hambleton -	43 57 31 SW 17 9 5 NW	44663 W	96486 S
Hambleton Down - Hemingbrough Spire	Ledstone Beacon -	7 28 25 SW 87 57 34 NW	60436 W	290781 S
Ledstone Beacon - Hemingbrough Spire	Staincross Heights -	32 11 37 SW 61 2 32 SW	102307 W	357288 S
Wordeslow Hill - Brandon Down -	Pontop Pike -	83 28 33 NW 23 41 14 NW	153207 W	109938 N
Brandon Down - Pontop Pike -	Collier Law -	84 0 2 NW 51 12 43 SW	197500 W	74342 N
Pontop Pike - Collier Law - -	Rufflaw -	1 10 30 NE 16 3 22 NE	150596 W	237313 N
Collier Law - Rufflaw - -	Simonside Hill -	1 34 31 NE 60 24 8 NW	192365 W	261038 N
Rufflaw - Simonside Hill -	Alnwick Moor -	0 24 3 NW 40 10 51 NE	151104 W	309898 N

Meridian of Delamere Forest.

Delamere Forest -	Mow Copt -	69 33 55 SE	103809 E	38078 S
	Ashley Heath -	31 25 38 SE	67472 E	110418 S
	Hawkestone Obelisk -	5 37 21 SE	13041 E	132465 S
	Rodney's Pillar -	23 38 57 W	79676 W	181945 S
	Cyrn y Brain Mountain	58 13 0 SW	107472 W	66593 S
	Garreg Mountain -	78 39 26 NW	134612 W	27002 N
	Heswell Hill -	65 44 30 NW	90942 W	40982 N
	Billinge Beacon -	3 42 32 NW	6757 W	104244 N
	Bellefield Hill -	25 18 54 NE	27794 E	48188 N
Garreg Mountain - Cyrn y Brain Mountain	Llanelian Mountain, Denbighshire -	82 13 19 SW 56 22 31 NW	228856 W	14129 S
Garreg Mountain - Llanelian Mountain	Great Ormes Head -	82 34 15 NW 42 38 51 NW	255197 W	42726 N
Garreg Mountain - Cyrn y Brain Mountain.	Snowdon - -	64 56 48 SW 86 4 19 NW	305714 W	52979 S
Garreg Mountain - Cyrn y Brain Mountain	Arrennig Mountain	36 2 47 SW 71 16 16 SW	233929 W	109465 S
Garreg Mountain - Cyrn y Brain Mountain	Arran Fowddy -	25 19 55 SW 51 36 53 SW	221777 W	157137 S

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Garreg Mountain -	Llanelian Mountain, Anglesea -	79 1 47 NW	351829 W	69108 N
Llanelian Mountain		65 54 43 NW		
Llanelian Mountain A.	Moel Rhyddlad -	83 5 58 SW	406630 W	62475 N
Snowdon - -		41 9 23 NE		
Llanelian Mountain D.	Moelfre Issa -	83 53 4 SE	194295 W	10417 N
Great Ormes Head -		62 3 38 SE		
Moelfre Issa -	Gwaunysgaer Down -	55 22 33 NE	155312 W	37337 N
Great Ormes Head -		86 54 52 SE		
Moelfre Issa -	West end of Base -	6 37 46 NW	196327 W	27903 N
Gwaunysgaer Down		77 2 58 SW		
West end of Base -	East end of Base -	82 23 2 SE	172029 W	24653 N
Moelfre Issa		57 24 25 NE		
Ashley Heath -	Weaver Hill -	72 32 24 NE	181622 E	74514 S
Mow Copt -		65 16 18 SE		
Weaver Hill -	Castle Ring -	8 9 19 SW	165854 E	184538 S
Ashley Heath -		53 0 21 SE		
Ashley Heath -	The Wrekin -	22 27 47 SW	29760 E	201633 S
Castle Ring -		82 50 23 SW		
Ashley Heath -	Long Mount Pole -	38 5 12 SW	39648 W	247096 S
Cyrn y Brain Mountain		30 25 36 SE		
Hawkestone Obelisk	Long Mountain -	52 46 51 SW	89341 W	210231 S
Cyrn y Brain Mountain		7 11 37 SE		
Ashley Heath -	Brown Clay Hill -	16 38 10 SW	19204 E	271961 S
Hawkestone Obelisk		2 31 50 SE		
Brown Clay Hill -	Bar Beacon -	76 43 14 NE	172227 E	235846 S
Long Mountain -	Stow Hill -	10 7 40 SE	71037 W	312714 S
Brown Clay Hill -		65 41 43 SW		
Stow Hill - -	Malvern Hill -	57 32 1 SE	77903 E	407477 S
Brown Clay Hill -		23 25 12 SE		
Malvern Hill -	Cradle Mountain -	72 29 18 SW	98546 W	463149 S
Stow Hill - -		10 21 49 SW		
Stow Hill - -	Llandinam Mountain	77 40 2 NW	167591 W	291605 S
Long Mountain -		43 52 44 SW		
Long Mountain -	Radnor Forest -	10 36 5 SW	115144 W	348076 S
Stow Hill -		51 16 46 SW		
Malvern Hill -	May Hill - -	16 21 1 SW	54754 E	486403 S
Cradle Mountain -		81 22 30 SE		
Malvern Hill -	Trelleg Beacon -	32 15 1 SW	5077 W	538994 S
May Hill - -		48 41 6 SW		
Malvern Hill -	Cleeve - -	48 25 18 SE	153392 E	474442 S
May Hill - -		83 5 3 NE		
Malvern Hill -	Symmonds Hall -	2 41 37 SE	85483 E	568490 S
May Hill - -		20 31 32 SE		
Trelleg Beacon -	Mynydd Mane -	72 46 4 SW	87588 W	564584 S
Cradle Mountain -		6 10 4 SE		
Cradle Mountain -	Llangeinor Mountain	42 26 3 SW	201382 W	575632 S
Mynydd Mane -		84 27 17 SW		
Mynydd Mane -	Capellante -	53 57 7 NW	183410 W	494842 S
Llangeinor Mountain		12 32 29 NE		

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Mynydd Mane -	Garth Hill -	47 1 42 SW	138509 W	612023 S
Llangeinor Mountain		59 56 15 SE		
Garth Hill - -	Ogmoor Down -	69 1 13 SW	209328 W	639180 S
Llangeinor Mountain		7 7 39 SW		
Mynydd Mane -	Flatholmes Lighthouse	5 56 26 SW	98908 W	673438 S
Garth Hill -		32 48 49 SE		
Garth Hill - -	Dunkery Beacon -	26 18 44 SW	206790 W	750102 S
Ogmoor Down -		1 18 37 SE		
Heswell Hill -	Go Hill -	26 47 4 NE	48691 W	124679 N
Billinge Beacon -		64 1 8 NW		
Wittle Hill -	Rivington Hill -	75 48 18 SW	36849 E	149004 N
Billinge Beacon -		44 15 7 NE		
Mow Copt - -	Wittle Hill -	3 39 47 NW	90920 E	162679 N
Billinge Beacon -		59 6 3 NW		
Wittle Hill -	Axedge - -	24 2 14 SE	161352 E	4756 N
Mow Copt - -		52 57 14 NE		
Wittle Hill -	Holme Moss -	61 9 43 SE	174440 E	116690 N
Axedge - -		6 40 0 NE		
Wittle Hill -	Bleasdale Forest -	40 30 20 NW	13382 E	253149 N
Billinge Beacon -		7 41 13 NE		
Wittle Hill -	Boulsworth Hill -	31 33 35 NE	124757 E	217768 N
Bleasdale Forest -		72 14 12 SE		
Boulsworth Hill	Rumbles Moor -	62 2 19 NE	185144 E	249824 N
Holme Moss -		4 35 47 NE		
Boulsworth Hill -	Great Whernside -	10 8 43 NE	147270 E	343577 N
Rumbles Moor -		21 59 51 NW		
Boulsworth Hill -	Pendle Hill - -	65 45 8 NW	83529 E	236338 N
Wittle Hill -		5 43 48 NW		
Bleasdale Forest -	Beryl Hill -	72 54 9 SW	76892 W	225684 N
Billinge Beacon -		30 0 27 NW		
Boulsworth Hill - -	Ingleborough Hill -	26 22 20 NW	61683 E	344985 N
Great Whernside -		89 3 28 NW		
Ingleborough Hill -	Black Comb -	80 21 7 NW	137430 W	378835 N
Bleasdale Forest -		50 15 34 NW		
Ingleborough Hill -	The Calf -	18 45 34 NW	36724 E	418477 N
Black Comb - -		77 10 34 NE		
Ingleborough Hill -	Shunnor Fell -	24 45 45 NE	96196 E	419806 N
The Calf - -		88 43 10 NE		
Shunnor Fell - -	Water Crag - -	47 6 8 NE	122356 E	444112 N
Great Whernside -		13 54 59 NW		
Ingleborough Hill -	Helvellin Mountain -	45 5 52 NW	70466 W	476684 N
Black Comb - -		34 23 10 NE		
Black Comb - -	Sca Fell, Lower Top -	18 13 18 NE	114683 W	447935 N
The Calf - -		78 59 26 NW		
Black Comb - -	Dent Hill -	20 5 39 NW	170400 W	468957 N
Sca Fell, Lower Top -		69 19 40 NW		
The Calf - -	Cross Fell -	2 29 23 NE	42045 E	540868 N
Helvellin Mountain -		60 17 46 NE		
The Calf - -	High Pike -	43 7 38 NW	78855 W	541870 N
Cross Fell - -		89 31 27 NW		

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cross Fell Helvellin Mountain	Crif-Fell	69 52 16 NW 40 0 0 NW	198212 W	628927 N
Dent Hill Black Comb	Scilly Bank	36 38 6 NW 23 35 20 NW	185862 W	489750 N
Dent Hill Crif-Fell	Skiddaw	53 42 21 NE 43 16 5 SE	97810 W	522264 N
Black Comb Scilly Bank	Snea Fell	88 32 34 NW 61 35 18 SW	379503 W	384996 N
Black Comb Scilly Bank	North Berule	86 3 45 NW 61 58 31 SW	364827 W	394489 N
Crif-Fell Cross Fell	Wisp Hill	48 18 8 NE 25 23 18 NW	58722 W	753194 N
Cross Fell Wisp Hill	The Cheviot	13 52 31 NE 67 22 33 NE	112071 E	824364 N
Wisp Hill The Cheviot	Sayrs Law	16 46 17 NE 39 3 57 NW	3167 E	958532 N
Wisp Hill Crif-Fell	Queensberry Hill	89 59 18 NW 4 11 28 NE	189103 W	753213 N
Wisp Hill Sayrs Law	The Dunrigs	22 56 35 NW 46 47 56 SW	103316 W	858540 N
Sayrs Law The Cheviot	Mordington Hill	83 38 21 SE 6 47 36 NE	126416 E	944793 N
Mordington Hill Sayrs Law	Blackheddon	25 55 25 SE 63 49 54 SE	156316 E	883277 N
Blackheddon Sayrs Law	Lumsdane Hill	30 40 46 NW 76 44 42 NE	98366 E	980955 N
Sayrs Law Lumsdane Hill	Largo Law	20 11 25 NW 51 3 23 NW	48820 W	1099902 N
Sayrs Law Lumsdane Hill	East Lomond Top	37 44 22 NW 59 26 36 NW	108892 W	1103315 N

Meridian of Moel Rhyddlad.

Moel Rhyddlad	Llanelian Mountain	81 36 11 NE	54607 E	8061 N
Moel Rhyddlad Llanelian Mountain A.	Llwydiart Mountain	66 40 5 SE 29 37 8 SE	78418 E	33824 S
Moel Rhyddlad Llwydiart Mountain	Signal Staff Holyhead Mountain	49 29 56 SW 84 32 39 NW	27731 W	23685 S
Moel Rhyddlad Llanelian Mountain A.	Snowdon	42 39 10 SE 22 11 37 SE	103898 E	112779 S
Moel Rhyddlad Llwydiart Mountain	Rhiw Mountain	5 13 53 SW 30 18 20 SE	18237 W	199184 S
Moel Rhyddlad Llwydiart Mountain	Ynaliog Mountain	11 44 38 SW 35 1 36 SW	43059 W	207137 S
Moel Rhyddlad Llwydiart Mountain	Bwlch Mawr	18 4 43 SE 18 15 50 SW	44545 E	136458 S

Names of Stations.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Snowdon - -	Pengarn Mountain -	4 13 33 SE	114438 E	255418 S
Rhiw Mountain -		67 1 48 SE		
Rhiw Mountain -	Cader Idris -	73 20 1 SE	141910 E	247128 S
Pengarn Mountain -		73 12 33 NE		
Rhiw Mountain -	Aberystwith Station -	40 22 29 SE	106482 E	345860 S
Pengarn Mountain -		5 1 25 SW		
Aberystwith Station -	Plynlimmon -	77 37 48 NW	170698 E	331775 S
Cader Idris - -		18 47 1 SE		
Aberystwith Station -	Tregarron Down -	35 31 42 SE	157384 E	417147 S
Plynlimmon -		8 51 48 SW		
Aberystwith Station -	Talsarn -	10 5 13 SE	92719 E	423237 S
Tregarron Down -		84 37 9 SE		
Talsarn - -	Trecastle Beacon -	38 36 8 SE	189864 E	544915 S
Tregarron Down -		14 15 52 SE		
Talsarn - -	New Inn Hill -	11 28 42 SW	74985 E	510580 S
Trecastle Beacon -		73 21 40 NW		
Talsarn - -	Capel Kynon -	56 7 6 SW	38457 E	459678 S
New Inn Hill -		35 39 54 NW		
Talsarn -	Precelly Top -	55 17 51 SW	50868 W	522673 S
New Inn Hill -		84 30 37 SW		
New Inn Hill -	Lannon - -	10 8 22 SE	89844 E	593665 S
Trecastle Beacon -		64 0 51 SW		
Lannon -	Margam Down -	59 46 54 SE	191672 E	652970 S
Trecastle Beacon -		0 57 36 SE		
Lannon - -	Cefn Bryn -	2 51 20 SE	92956 E	656078 S
Margam Down -		88 11 54 SW		
Lannon - -	Marros Beacon -	87 59 48 SW	12256 W	597233 S
Cefn Bryn -		60 46 48 NW		
Precelly Top -	Highgate Mountain -	19 56 32 SW	88575 W	626605 S
Marros Beacon -		68 56 59 SW		
Precelly Top -	Newton Down -	22 55 9 SW	83414 W	599655 S
Marros Beacon -		88 2 59 SW		
Precelly Top -	Plumstone Down -	64 45 32 SW	111248 W	551138 S
Newton Down -		29 50 31 NW		
Plumstone Down -	St. Ann's Hill -	24 46 13 SW	140424 W	614368 S
Newton Down -		75 31 50 SW		

Meridian of Black Down.

Mendip Hill	Blagdon -	52 38 31 NW	43818 W	228302
Dundry Beacon		35 35 24 SW		
Blagdon	Brent Knoll -	65 53 48 SW	90868 W	207251 N
Moorlynch		23 39 38 NW		
Blagdon	Bagborough -	54 50 9 SW	147982 W	154918 N
Moorlynch		84 41 22 SW		
Blagdon -	Flatholmes Lighthouse	74 46 29 NW	130067 W	251937 N
Moorlynch		33 17 1 NW		

Names of Stations.		Bearings.	Distance from Meridian.	Distances from Perpendicular.
		° ′ ″	Feet.	Feet.
Bagborough - Flatholmes Lighthouse	Dunkery Beacon -	77 9 29 NW 54 42 45 SW	238111 W	175468 N
Bagborough - Dunkery Beacon -	Brompton Ralph -	81 37 59 SW 67 1 13 SE	178930 W	150372 N
Bagborough - Dunkery Beacon -	Haddon Beacon -	71 49 31 [illegible] 28 47 53 SE	214760 W	133012 N
Dunkery Beacon - Haddon Beacon -	North Molton Ridge -	50 15 12 SW 78 27 11 NW	274478 W	145215 N
Dunkery Beacon - North Molton Ridge -	Span Head - -	72 47 9 SW 47 49 2 NW	290090 W	159350 N
Span Head - North Molton Ridge -	Cotten Hill - -	63 48 31 SW 81 14 18 SW	339088 W	135255 N
North Molton Ridge - Cotten Hill -	Paracombe - -	36 17 52 NW 39 47 18 NE	300870 W	181147 N
Paracombe - - Cotten Hill -	Hangman Hill -	65 33 26 NW 5 16 42 NE	333400 W	195969 N
Paracombe - North Molton Ridge -	Hartland Point -	71 2 45 SW 84 40 21 SW	454335 W	128443 N

ART. III. *Bearings and Distances of several Church Steeples, and other Objects of Note, in the third Section of the present Work, from the Parallels and Perpendiculars to their respective Meridians.*

Meridian of Greenwich.

Royston Orwell	Great St. Mary's Steep. Cambridge -	32 23 38 NE 57 4 23 [illegible]	28388 E	268080 N
Royston Orwell	Coton Spire -	22 16 6 NE 39 3 2 NE	14924 E	269929 N
Royston Orwell	Great Eversden Steeple	15 6 51 NE 40 2 41 NE	1252 E	242889 N
Royston Orwell	Melbourn Steeple	43 7 50 NE 16 36 19 SE	4470 E	222150 N
Royston Orwell	Headon Steeple -	89 36 43 NE 29 46 21 SE	21214 E	205095 N
Royston Orwell	Chishall Steeple -	83 14 16 SE 24 7 51 SE	1[illegible]87 E	201398 N
Royston Orwell	Orwell Steeple -	15 16 38 NE 12 34 33 SE	1740 W	241394 N
Royston Orwell	Ashwell Spire -	87 20 24 NW 37 40 30 SE	35334 W	205969 N
Royston Orwell	Meldreth Steeple -	31 35 40 NE 18 41 56 SE	3159 E	229056 N

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Roy[illegible]on - -	Bassingbourn Steeple	5 39 56 NW	13221 W	220027 N
Orwell - -		20 2 24 SW		
Madingly -	Granchester Steeple	32 33 20 SE	23050 E	257990 N
Orwell - -		68 28 53 NE		
Madingly - -	Trinity College Chapel	76 46 14 SE	27944 E	268691 N
Orwell -		55 55 27 NE		
Madingly -	Trinity Spire, Cambridge -	76 7 30 SE	28881 E	268293 N
Orwell -		57 12 38 NE		
Madingly - -	Tru[illegible]pington Steeple	37 9 15 SE	26121 E	256134 N
Orwell -		73 51 23 NE		
Balsham -	Balsham Steeple -	29 16 22 SE	75294 E	240826 N
Orwell -		85 1 4 SE		
Balsham - -	Sutton Steeple -	24 26 37 NW	30238 E	338199 N
Newmarket - -		53 27 19 NW		
Balsham - -	Haddenham Spire -	24 35 28 NW	35246 E	326645 N
Newmarket -		58 3 33 NW		
Madingly - -	Cottenham Spire -	29 32 54 NE	31634 E	302774 N
Balsham -		35 55 43 NW		
Balsham -	Bottisham Steeple -	19 53 30 NW	61759 E	274107 N
Newmarket -		74 37 42 SW		
Newmarket -	Mildenhall Steeple -	26 8 46 NE	119353 E	320794 N
[illegible]		46 51 46 SW		
Newmarket	[illegible]tretham Steeple	53 15 1 NW	51552 E	322685 N
[illegible]on Hill		9 SW		
Bowbrickhill	Therfield Steeple -	87 31 42 NE	12525 W	196493 N
Kinsworth -		63 7 16 NE		
Bowbrickhill	[illegible]hall Steeple -	88 40 18 NE	14491 W	193673 N
Kinsworth		63 54 27 NE		
Bowbrickhill	[illegible]don Steeple -	89 0 56 SE	16722 W	188184 N
Kinsworth -		65 53 23 NE		
Horsemoor Hill	[illegible]dlington Steeple	23 33 41 NE	139201 W	198933 N
Brogborough		43 27 14 SW		
Horsemoor Hill	M[illegible]ton Mortyne Steeple - -	23 2 32 NE	138390 W	201080 N
Brogborough		52 14 7 SW		
Hill Farm	Woburn Abbey -	10 19 0 SE	134742 W	159647 N
Brogborough		1 12 0 [illegible]		
Hill Farm	Milton Bryant Steeple	87 12 14 NE	132245 W	179108 N
Bowbrickhill -		59 17 36 SE		
Trusler Hill	Tuddington Steeple	[illegible]3 47 54 SE	119593 W	172696 N
Lilleyhoe -		50 50 NW		
Trusler Hill -	Aspley Steeple -	54 15 40 NW	141[illegible]8 W	197260 N
Brogborough		44 55 42 SW		
Trusler Hill -	Willen Steeple -	51 43 37 NW	150362 W	205205 N
Brogborough -		83 1 30 NW		
Trusler Hill -	Little Brickhill Steeple	76 23 5[illegible] SW	152039 W	185126 N
Bowbrickhill -		6 38 48 SW		

Meridian of Clifton Beacon.

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Gringley Beacon - Crowle Beacon -	Belton Steeple -	15 29 33 NE 1 55 55 SE	87035 E	33103 N
Clifton Beacon - Crowle Beacon -	Gringley on the Hill, Steeple - -	75 40 29 SE 11 39 42 SW	71069 E	18149 S
Clitton Beacon - Crowle Beacon -	Selby Steeple -	15 33 15 NE 39 51 32 NW	33168 E	119160 N
Clifton Beacon - Crowle Beacon -	Axholme Steeple -	81 40 8 NE 7 7 15 SW	80819 E	118350 N
Clifton Beacon - Crowle Beacon -	Loughton Spire -	1 55 41 SW 47 6 38 SW	855 W	25395 S
Clifton Beacon - Crowle Beacon -	Hatfield Spire -	35 20 29 NE 73 32 23 SW	26961 E	38021 N
Clifton Beacon - Crowle Beacon -	Thorne Steeple -	47 17 30 NE 88 44 6 NW	60788 E	56109 N
Gringley Beacon - Crowle Beacon -	Epworth Steeple -	18 17 2 NE 1 48 30 SE	87230 E	25492 S
Gringley Beacon - Clifton Beacon -	Missin Steeple -	42 58 22 SW 85 57 15 SE	60330 E	4267 S
Gringley Beacon - Clifton Beacon -	East Retford Spire -	23 11 31 SW 68 4 40 SE	68706 E	27648 S
Arbury Hill - Helkinton - -	South Kilworth Steeple	6 44 16 NE 33 7 50 NW	12983 E	357551 S
Arbury Hill - Helkinton -	Lutterworth Steeple	1 21 58 NE 50 58 9 NW	4055 E	366076 S
Arbury Hill - Helkinton -	West Haddon Steeple	35 19 8 NE 9 11 32 SW	32146 E	407593 S
Arbury Hill - Helkinton - -	Daventry Spire -	43 34 34 NE 23 56 51 SW	14342 E	437149 S
Arbury Hill - Helkinton -	Guilesborough Spire	45 3 26 NE 41 36 17 SE	47225 E	404981 S
Arbury Hill - Helkinton - -	Dunchurch Steeple -	22 40 44 NW 70 15 35 SW	15129 W	408949 S
Arbury Hill - Helkinton - -	Misterton Steeple -	2 11 30 NE 47 38 54 NW	5341 E	364142 S
Arbury Hill - Helkinton - -	Naseby Steeple -	38 14 51 NE 77 7 47 NE	51618 E	387186 S
Arbury Hill - Burrow Hill -	Branston Spire -	1 39 42 NW 50 43 46 NW	1354 E	425966 S
Arbury Hill - Burrow Hill -	Shuckburgh Steeple -	54 32 54 NW 88 38 29 SW	11865 W	440155 S
Arbury Hill - Burrow Hill -	Cold Ashby Steeple -	33 44 57 NE 26 22 5 NE	42855 E	388998 S
Helkinton - - Naseby Station -	North Kilworth Spire	18 24 42 NW 61 55 55 NW	27927 E	370295 S
Helkinton - - Naseby Station -	Sibertoft Steeple -	37 15 9 NE 19 55 37 NW	49364 E	371906 S

Names of Stations	and intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Weaver Hill	Litchfield Spire	2 39 51 SE	135299 W	281269 S
Stathern Point	Cold Overton Steeple	6 8 43 SE	92595 E	282549 S
Burrow Hill		69 38 35 SE		
Helkinton	Welford Steeple	6 13 44 NE	36058 E	379737 S
Naseby Station		76 13 47 NW		
Tilton on the Hill	Waltham on the Wolds Spire	11 3 43 NE	90672 E	233612 S
Stathern Point		14 54 12 SE		
Tilton on the Hill	Tilton on the Hill Spire	84 44 36 SW	70495 E	297071 S
Burrow Hill		17 18 46 SW		
Bardon Hill	Nottingham Steeple	24 27 17 NE	17087 E	184882 S
Stathern Point		67 53 10 NW		
Bardon Hill	Breedon on the Hill Steeple	27 36 4 NW	39795 W	237803 S
Stathern Point		78 32 0 SW		
Stathern Point	Bottesford Spire	16 50 47 NE	92637 E	187441 S
Holland Hill		65 11 53 SE		
Stathern Point	Redmile Spire	17 15 3 NE	89183 E	199187 S
Holland Hill		56 20 47 SE		
Stathern Point	Bingham Spire	41 47 23 NW	59897 E	184351 S
Holland Hill		51 32 11 SE		
Stathern Point	Langar Steeple	21 37 39 NW	79032 E	197314 S
Holland Hill		52 59 5 SE		
Stathern Point	Plungar Steeple	30 32 48 NW	80030 E	203988 S
Holland Hill		49 20 13 SE		
Stathern Point	Granby Steeple	34 58 3 NW	74090 E	196824 S
Holland Hill		50 42 46 SE		
Stathern Point	Caythorpe Spire	42 39 16 NE	136234 E	156941 S
Holland Hill		89 18 3 SE		
Stathern Point	Coleby Spire	33 46 54 NE	148510 E	117657 S
Holland Hill		73 6 1 NE		
Stathern Point	Leadenham Spire	39 49 16 NE	140045 E	146540 S
Holland Hill		85 33 53 NE		
Stathern Point	Harmstone Steeple	31 58 54 NE	147740 E	112101 S.
Holland Hill		70 41 37 NE		
Stathern Point	Newark Spire	1 15 56 NE	86657 E	139788 S
Holland Hill		75 56 13 NE		
Stathern Point	Stathern Steeple	67 30 38 SW	81082 E	214141 S
Bottesford		24 43 1 SW		
Stathern Point	Boothby Steeple	37 3 12 NE	152309 E	123418 S
Bottesford		43 2 16 NE		
Stathern Point	Wellingore Steeple	38 49 29 NE	150676 E	130952 S
Bottesford		45 54 55 NE		
Stathern Point	Over Broughton Steeple	63 25 42 SW	51597 E	229230 S
Bottesford		44 21 1 SW		
Stathern Point	LongBennington Steeple	25 54 6 NE	104723 E	171982 S
Bottesford		37 36 29 NE		
Stathern Point	Doddington Spire	23 49 2 NE	106890 E	163027 S
Bottesford		29 17 40 NE		
Stathern Point	Foston Spire	27 53 15 NE	97792 E	188084 S
Bottesford		56 1 34 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Stathern Point -	Nether Broughton Steeple - -	60 8 11 SW	55666 E	229371 S
Bottesford -		41 23 29 SW		
Bardon Hill -	Loughborough Steeple	49 45 0 NE	3591 E	249436 S
Tilton on the Hill -		57 54 51 NW		
Bardon Hill -	Belton Spire -	8 34 22 NW	25045 W	252377 S
Loughborough -		84 8 10 SW		
Cropwell Bishop -	Kilvington Steeple -	70 32 59 SE	77941 E	213066 S
Bottesford - -		30 40 15 SW		
Cropwell Bishop -	Barkston Spire -	88 18 3 NE	82828 E	201067 S
Bottesford - -		36 24 51 SW		
Cropwell Bishop -	Whatton Spire -	56 36 31 NE	72322 E	185427 S
Bottesford - -		89 24 0 NW		
Holland Hill -	Kritch Spire -	1 53 19 NW	20906 E	71861 S
Sutton - -		21 34 48 NE		
Sutton - -	Sutton Spire -	67 14 48 NW	10923 W	121219 S
Orpit Heights -		68 52 37 NE		
Sutton - -	Kirby Spire -	60 39 21 SW	10749 W	131480 S
Orpit Heights -		77 45 47 NE		
Weaver Hill -	Derby Steeple -	68 21 24 SE	50752 W	194407 S
Orpit Heights		16 41 5 SW		

Meridian of Burleigh Moor.

Wilton Beacon -	York Minster -	79 19 30 SW	8951 W	222335 S
Botton Head -		0 15 0 SE		
Rumbles Moor -	York Spire -	83 20 6 NE	8621 W	224182 S
Ledstone Beacon -		37 52 57 NE		
Rumbles Moor -	Wakefield Spire -	41 3 31 SE	99015 W	323960 S
Ledstone Beacon -		49 18 14 SW		
Ledstone Beacon -	Brayton Spire -	88 48 22 SE	9627 W	291840 S
Staincross Heights -		54 46 17 NE		
Ledstone Beacon -	Drax Spire -	77 23 45 SE	13676 E	307353 S
Staincross Heights -		66 42 22 NE		
Rumbles Moor -	High Howland Steeple	24 1 6 SE	118661 W	357190 S
Staincross Heights -		89 39 14 SW		
Ledstone Beacon -	Howden Steeple -	83 45 0 SE	37484 W	301504 S
Hambleton Down -		22 22 56 SE		
Ledstone Beacon -	Bishop Wilton Spire	56 9 25 NE	55128 E	213291 S
Hambleton Down		44 28 7 SE		
Hambleton Down -	Ripon Church -	58 16 17 SW	102931 W	158820 S
Black Hambleton Down		43 4 8 SW		
Wilton Beacon -	Home Steeple -	56 24 9 NE	107477 E	241160 S
Hunsley Beacon -		10 9 51 NE		
Hunsley Beacon -	Crowle Steeple -	38 31 3 SW	44466 W	351709 S
Crowle Beacon -		77 51 18 SW		
Collier Law -	Durham Cathedral	89 59 8 SE	113047 W	74320 N
Wordeslow Hill -		49 27 35 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Collier Law - - Wordeslow Hill -	Brusselton Folly -	47 20 10 SE 33 44 52 SW	136738 W	18342 N
Collier Law - - Wordeslow Hill -	Westerton Folly -	63 35 35 SE 34 20 33 SW	124502 W	38093 N
Collier Law - - Wordeslow Hill -	Merrington Ch Tower	66 24 54 SE 30 8 15 SW	117265 W	39312 N
Collier Law - Wordeslow Hill -	West Boldon Spire -	60 47 12 NE 9 27 3 NW	86809 W	136240 N
Collier Law - - Wordeslow Hill -	Newbiggin Spire -	33 54 6 NE 7 9 17 NW	96493 W	224649 N
Collier Law - - Wordeslow Hill -	Seaton Delaval Summer House -	42 45 16 NE 8 22 15 NW	93574 W	186754 N
Brandon Down - Wordeslow Hill -	North Shields Church -	27 48 39 NE 4 18 31 NW	85524 W	160965 N
Brandon Down - Wordeslow Hill -	Sherf Hill Beacon Staff	17 39 1 NE 45 34 25 NW	113713 W	13692 N
Wordeslow Hill - Burleigh Moor -	Hartlepool Church Tower -	42 16 24 SE 33 21 24 NW	29883 W	45393 N
Wordeslow Hill Burleigh Moor -	Sunderland Lighthouse	28 13 14 NE 28 1 13 NW	67529 W	126893 N
Wordeslow Hill - Burleigh Moor -	Windmill on Marston Hill - -	9 33 37 NE 27 25 26 NW	74124 W	142852 N
Burleigh Moor - - Brandon Down -	Easington Church Tower -	40 37 54 NW 81 27 23 NE	66871 W	77931 N
Wordeslow Hill - Pontop Pike -	Chester-le-Street Spire	84 57 12 NW 82 22 58 SE	111826 W	104402 N
Wordeslow Hill - Pontop Pike - -	Whitburn Spire -	18 32 26 NE 71 42 8 NE	68944 W	137802 N
Wordeslow Hill - Rufflaw -	Tynemouth Lighthouse	2 7 23 NE 44 8 SE	78739 W	164237 N
Rufflaw - - - Alnwick Moor -	Lighthouse Coquet Island - -	48 20 18 NE 56 42 20 SE	103876 W	278882 N
Rufflaw - - Alnwick Moor -	Earls Mount Obelisk -	2 12 9 NE 47 30 47 NE	147683 W	313031 N
Rufflaw - - Alnwick Moor -	Warkworth Castle -	50 33 15 SE 34 36 52 NE	18825 W	283342 N
Alnwick Moor - - Blackheddon - -	Bambrough Castle -	10 17 28 NE 75 54 15 SE	138437 W	379661 N
Alnwick Moor - Blackheddon - -	Embleton Church Tower -	44 22 55 NE 48 35 19 SE	123515 W	338089 N
Alnwick Moor - - Blackheddon	Dunstanbrough Castle	53 47 43 NE 51 17 8 SE	115157 W	336211 N
Alnwick Moor Blackheddon	Lighthouse on the West Staples - -	18 18 14 NE 81 25 52 SE	127096 W	382474 N
Alnwick Moor Blackheddon	Beadnell Spire -	28 40 54 NE 62 58 54 SE	123487 W	360381 N
Alnwick Moor Blackheddon	Windmill on Sunderland Point - -	25 7 40 NE 68 36 9 SE	124008 W	367668 N

Meridian of Delamere Forest.

Names of Stations and intersected Objects.		Bearings. ° ′ ″	Distance from Meridian. Feet.	Distance from Perpendicular. Feet.
Cleeve Malvern Hill	Glocester Cathedral	70 7 32 SW 13 49 16 SE	99194 E	494033 S
Cleeve Malvern Hill	Church Down Steeple	63 52 15 SW 24 1 28 SE	115937 E	492810 S
Malvern Hill May Hill	Cheltenham Steeple	38 53 38 SE 86 29 17 NE	137483 E	481327 S
Malvern Hill May Hill	Cleeve Steeple	48 12 53 SE 75 39 20 NW	141426 E	464240 S
Malvern Hill May Hill	Beckford Steeple	66 12 17 SE 61 54 55 NE	146216 E	437598 S
Malvern Hill May Hill	Prestbury Steeple	43 57 59 SE 83 42 6 NE	144484 E	476504 S
Malvern Hill May Hill	Tewkesbury Steeple	44 12 55 SE 59 31 18 NE	118307 E	448999 S
Malvern Hill May Hill	Breedon Spire	61 56 56 SE 54 21 58 NE	127783 E	434053 S
Malvern Hill May Hill	Ledbury Steeple	36 14 11 SW 5 17 10 NE	59726 E	432233 S
Malvern Hill May Hill	Pershore Steeple	87 37 35 NE 45 10 23 NE	126605 E	405043 S
Trelleg Beacon Mynydd Mane	Trelleg Steeple	85 6 38 NW 71 44 58 NE	8967 W	538657 S
Trelleg Beacon Mynydd Mane	Lansdown Monument	32 26 48 SE 59 47 55 SE	69225 E	655857 S
Garth Hill Mynydd Mane	The highest part of Twymbarlum Mt.	56 20 52 NE 16 49 4 SW	92711 W	581533 S
Garth Hill Ogmoor Down	Llantrissant Steeple	88 46 54 SW 62 49 19 NE	157213 W	612421 S
Mynydd Mane Llangeinor Mountain	Beacons of Brecknock	46 44 16 NW 19 47 15 NE	169628 W	487370 S
Mynydd Mane Llangeinor Mountain	Pen-y-voel	18 38 36 NE 55 51 27 NE	58662 W	478848 S
Llanelian, Denbighshire Garreg Mountain	St. Elmo Summer House	72 42 22 NE 54 36 33 NW	150731 W	38453 N
Llanelian, Denbighshire Llanelian, Anglesea	Llandonna Signal Staff	75 43 47 NW 48 24 43 SE	314396 W	35886 N
East end of R. Base West end of R. Base	St. Asaph Cathedral	30 51 47 SE 65 21 45 SE	165530 W	13778 N
East end of R. Base West end of R. Base	Rhuddlan Steeple	19 59 43 SE 85 57 39 SE	171485 W	26149 N
East end of R. Base West end of R. Base	Abergele Steeple	89 26 59 SW 1 29 25 SW	196418 W	24420 N
East end of R. Base West end of R. Base	Cave Hill Signal Staff	87 43 58 SW 64 13 29 SW	205826 W	23316 N
Cyrn y Brain Mountain Long Mountain	Trinity Spire, Chester	48 15 37 NE 12 21 22 NE	45830 W	11597 S

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cyrn y Brain Mountain Delamere Forest	Winwick Spire	41 31 54 NE 14 2 58 NE	19095 E	76307 N
Cyrn y Brain Mountain Garreg Mountain	Neston Steeple	15 4 17 NE 87 34 43 SE	82859 W	24813 N
Garreg Mountain Delamere Forest	Bidston Lighthouse	52 12 26 NE 52 15 26 NW	84793 W	65[illegible]37 N
Garreg Mountain Delamere Forest	St. Paul's, Liverpool	58 5 53 NE 44 12 12 NW	67122 W	69015 N
Heswell Hill Billinge Beacon	Formby NW Landmark	1 21 17 NE 81 7 4 NW	89140 W	117118 N
Heswell Hill Billinge Beacon	Formby SE Landmark	6 8 39 NE 81 13 4 NW	82865 W	116002 N
Heswell Hill Billinge Beacon	Crosby Steeple	16 6 57 NE 85 18 59 SW	74261 W	98714 N
Heswell Hill Billinge Beacon	Helbre Lighthouse	39 2 46 NW 67 42 27 SW	108440 W	62557 N
Heswell Hill Billinge Beacon	Bebbington Spire	76 25 1 NE 47 11 21 SW	69440 W	46178 N
Heswell Hill Billinge Beacon	Point of Air Lighthouse	79 24 24 NW 67 41 16 SW	139006 W	49972 N
Heswell Hill Billinge Beacon	Sephton Spire	24 46 4 NE 89 1 36 SW	62188 W	103302 N
Heswell Hill Billinge Beacon	Wavertree Steeple	61 26 28 NE 46 36 51 SW	50264 W	63123 N
Heswell Hill Billinge Beacon	Leasowes Lighthouse	9 48 16 NW 69 5 45 SW	95984 W	70160 N
Garreg Mountain Heswell Hill	Eastham Spire	85 0 15 NE 76 15 22 SE	60332 W	33495 N
Heswell Hill Belle-field Hill	Prescot Spire	61 55 27 NE 60 58 33 NW	26334 W	75445 N
Heswell Hill Belle-field Hill	Everton Flagstaff	40 55 22 NE 72 59 9 NW	62160 W	74182 N
Billinge Beacon Belle-field Hill	Warrington Steeple	35 8 35 SE 1 19 57 NE	23111 E	61814 N
Billinge Beacon Belle-field Hill	St. Mary's Spire, Manchester	85 6 17 SE 56 49 15 NE	95174 E	95514 N
Billinge Beacon Belle-field Hill	Standish Spire	22 22 6 NE 11 39 15 NW	5226 E	133363 N
Billinge Beacon Go-Hill	North Meals Spire	43 33 19 NW 17 36 28 NW	59966 W	160206 N
Billinge Beacon Go-Hill	Halsall Spire	60 48 32 NW 48 36 25 NW	57692 W	132851 N
Billinge Beacon Go-Hill	Blackrod Steeple	41 37 56 NE 80 42 17 NE	21637 E	136190 N
Billinge Beacon Go-Hill	Aughton Spire	73 57 48 NW 15 53 7 SW	50896 W	116931 N
Wittle Hill Billinge Beacon	Knoll Hill	39 48 25 SE 63 26 11 NE	96570 E	155903 N
Boulsworth Hill Wittle Hill	Waller's Pleasure House	86 44 52 NW 23 4 45 NW	66020 E	221105 N

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Knoll Hill -	Bennington Steeple -	16 22 14 SE	106705 E	[illegible] N
Wittle Hill -		20 55 29 SE		
Bar Beacon -	Walsall Steeple -	82 41 53 NW	136080 E	
Castle Ring -		32 31 52 SW		
Bar Beacon -	Wednesbury Spire -	74 59 51 SW	147948 E	
Castle Ring - -		17 12 18 SW		
Clay Hill - -	Shrewsbury New Ch.	22 50 28 NW	16230 W	
Ashley Heath -		47 14 0 SW		
Bar Beacon -	Wolverhampton Spire	87 1 43 NW		
Castle Ring -		40 38 59 SW		
Llanelian, Denbighshire	Gwannysgaer Sig. Staff	72 13 15 NE		
Garreg Mountain -		57 27 24 NW		
Llanelian, Denbighshire	Moel Fammau -	69 47 2 SE	125139 W	
Garreg Mountain -		10 30 34 SE		
Go-Hill - -	Ormskirk Spire -	65 10 48 NE	43945 W	
Beryl Hill -		18 26 23 SE		
Go-Hill -	Ashurst Beacon -	88 35 59 NE		
Beryl Hill -		31 40 36 SE		
Beryl Hill -	North Station on the Cliff near Blackpool	89 2 38 SW		
Ashurst Beacon -		32 54 18 NW		
Beryl Hill -	Bispham Church Tower	9 22 34 NE		
North Station -		32 2 41 NE		
Beryl Hill -	Landmark, Rossal Point	3 21 37 NW		
Black Comb -		25 27 15 SE		
Beryl Hill - -	Poulton Church Tower	75 23 44 NE		
Black Comb -		25 20 58 SE		
Black Comb -	Coniston Fell -	47 27 27 NE		119726 N
Ingleborough Hill -		64 11 32 NW		
Black Comb -	Peel Castle -	24 30 59 SE	104753 W	
Ingleborough Hill -		77 12 15 SW		
Black Comb -	Lancaster Church Tower	55 41 44 SE	25786 W	
The Calf -		28 21 51 SW		
Black Comb -	Great Gavel -	16 22 16 NE		
The Calf -		74 21 6 NW		
Black Comb -	The Pillar - -	7 5 27 NE		466268 N
Dent Hill -		86 29 26 SE		
Black Comb -	Windmill near Whitehaven -	27 48 33 NW		484143 N
Dent Hill -		55 44 17 NW		
Dent Hill -	Red Pike - -	81 49 19 NE		475068 N
Scilly Bank -		75 47 35 SE		
Dent Hill -	Grisdale Pike -	57 49 39 NE		499324 N
Scilly Bank -		81 27 23 NE		
Dent Hill -	Workington Chapel	18 52 38 NW		19287 N
Scilly Bank -		3 23 13 NW		
Dent Hill -	Lighthouse, Saturness Point -	8 51 19 NW		603982 N
Crif-Fell -		15 11 54 SE		
Scilly Bank -	Lighthouse, St. Bee's Head - -	43 55 16 SW		472925 N
Crif-Fell -		1 24 49 SW		
The Calf -	Pennigant Hill -	36 24 24 SE		341351 N
Ingleborough -		83 30 13 SE		

Names of Stations and intersected Objects.		Bearings. ° ′ ″	Distance from Meridian. Feet.	Distance from Perpendicular. Feet.
The Calf	Kirkby Lonsdale, Church Tower	16 35 36 SW	18846 E	358472 N
Ingleborough		72 31 32 NW		
The Calf	Whernside in Ingleton Fells	25 1 16 SE	60567 E	367393 N
Ingleborough		2 51 10 NW		
The Calf	Penrith Beacon	23 36 33 NW	12292 W	530622 N
Cross Fell		79 19 20 SW		
Cross Fell	Bow Fell	57 14 12 SW	102230 W	448018 N
High Pike		13 59 8 SW		
Cross Fell	Carrock Fell	88 17 0 SW	71283 W	537470 N
High Pike		59 49 0 SE		
Cross Fell	Cold Fell Pike	21 29 24 NW	14638 E	610484 N
High Pike		53 43 34 NE		
Cross Fell	Dallerside Beacon	10 7 14 NW	34287 E	584323 N
High Pike		69 25 59 NE		
Cross Fell	Saddle Back	79 6 44 SW	77075 W	517954 N
High Pike		4 15 32 SE		
Cross Fell	Nine Standards	26 33 34 SE	87372 E	450200 N
Water Crag		80 7 32 NW		
Cross Fell	Kilhope Law	51 15 5 NE	85468 E	575714 N
Water Crag		15 39 23 NW		
Criff-Fell	Carlaveroc Castle	60 27 57 NE	176185 W	641404 N
High Pike		44 21 32 NW		
Criff-Fell	Annan Spire	78 15 33 NE	120208 W	645137 N
High Pike		21 49 20 NW		
Criff-Fell	Whin Fell	27 20 39 NE	120192 W	77[illegible]799 N
Wisp Hill		66 35 48 NW		
Collier Law	Peel Fell Pile	35 41 34 NW	1[illegible]913 E	742159 N
High Pike		25 41 [illegible] NE		
Mordington Hill	Low Building on the Staples	51 32 [illegible] SE	212[illegible]90 E	[illegible]76120 N
Blackheddon		82 47 3 [illegible]		
Mordington Hill	Light-house on the East Staples	56 3 20 SE	219000 E	882440 N
Blackheddon		89 13 5[illegible] SE		
Mordington Hill	Beacon Staff on Old Law	47 20 0 SE	184860 E	890925 N
Blackheddon		74 59 59 NE		
Mordington Hill	Holy Island Castle	49 55 7 SE	185907 E	894730 N
Blackheddon		68 50 23 NE		
Mordington Hill	Kyloe Church Tower	30 12 15 SE	158325 E	889976 N
Blackheddon		16 40 37 NE		
Mordington Hill	Lowick Church Tower	18 5 31 SE	145129 E	887429 N
Blackheddon		69 34 42 NW		
Mordington Hill	Norham Castle	27 0 31 SW	110312 E	[illegible]13102 N
Blackheddon		56 57 24 NW		
Mordington Hill	Hume Castle	57 17 47 SW	41423 E	892145 N
Blackheddon		85 28 1 NW		
Mordington Hill	Dunse Spire	73 [illegible] 23 SW	70722 E	[illegible]33[illegible] N
Blackheddon		59 40 52 NW		
Mordington Hill	Blackadder Tower	68 54 22 SW	93157 E	[illegible]63 N
Blackheddon		52 12 23 NW		
Sayrs Law	Berwick upon Tweed, Spire	78 37 55 SE	140540 E	[illegible]30[illegible] N
Blackheddon		18 19 27 NW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Sayrs Law Blackheddon	Habchester Hill, Signal Staff	85 43 57 SE 27 3 15 NW	122424 E	949631 N
Sayrs Law Mordington Hill	Elden Hills, highest Point	5 49 55 SW 58 3 36 SW	6711 W	861801 N
Sayrs Law Mordington Hill	Hedghope Pile	41 24 40 SE 1 21 7 SW	123518 E	822075 N
Sayrs Law Lumsdane Hill	West Lomond Top	41 6 8 NW 60 57 7 NW	124277 W	1104614 N
Sayrs Law Lumsdane Hill	St. Monance Spire	8 58 19 NW 47 4 34 NW	17367 W	1088591 N
Sayrs Law Lumsdane Hill	Pittenweem Spire	5 4 11 NW 44 11 22 NW	8583 W	1090973 N
Sayrs Law Lumsdane Hill	West Anstruther Spire	2 52 56 NW 41 41 33 NW	3732 W	1095578 N
Sayrs Law Lumsdane Hill	East Anstruther Spire	2 34 58 NW 41 19 58 NW	3045 W	1096257 N
Sayrs Law Lumsdane Hill	Kilrenny Spire	1 22 11 NW 39 37 51 NW	215 W	1099989 N
Sayrs Law Lumsdane Hill	High Spire in Crail	3 24 33 NE 33 39 56 NW	12209 E	1110310 N
Sayrs Law Lumsdane Hill	High Building, near Crail	4 37 30 NE 31 18 30 NW	15948 E	1116465 N
Sayrs Law Lumsdane Hill	Lighthouse on the Isle of May	10 36 8 NE 35 24 7 NW	26336 E	1082304 N
Sayrs Law Lumsdane Hill	Bas Rock	4 10 26 NE 55 9 58 NW	9326 E	1042918 N
Sayrs Law Lumsdane Hill	Signal Staff on North Berwick Law	0 52 12 NW 63 45 53 NW	5714 W	1032249 N
Sayrs Law Lumsdane Hill	Signal Staff on Dulau	71 37 26 NE 32 2 34 NW	93599 E	988571 N
Sayrs Law Wisp Hill	Building on Hill, near Stow	25 53 55 SW 7 31 57 NE	44566 W	860237 N
Sayrs Law Wisp Hill	Soutra Hill Pile	89 55 45 NW 11 49 15 NE	15738 W	958557 N

Meridian of Moel Rhyddlad.

Margam Down Cefn Bryn	St. Ann's Chapel, Lundy Isle	54 21 18 SW 37 47 51 SE	25338 W	808593 S
Margam Down Cefn Bryn	Kilvey Windmill	72 46 21 NW 70 9 32 NE	143207 E	637[illegible]43 S
Cefn Bryn Marros Beacon	Penbree Steeple	38 10 12 NW 75 10 28 SE	62192 W	616939 S
Cefn Bryn Marros Beacon	Tenby Spire	75 21 36 NW 40 28 36 SW	34139 W	622876 S
Cefn Bryn Marros Beacon	Crunwell Steeple	63 55 24 NW 86 18 9 SW	25529 W	598091 S

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular
		° ′ ″	Feet.	Feet.
Cefn Bryn - Lannon - -	Marros Steeple -	59 17 50 NW 89 41 28 SW	11233 W	594209 S
Marros Beacon - Lannon - -	Kidwelly Spire -	88 28 20 SE 81 16 24 SW	54908 E	599026 S
Marros Beacon - Lannon -	Woolhouse Caldy Isle	24 38 27 SW 70 0 23 SW	30743 W	637538 S
Marros Beacon - Precelly Top -	St. Ann's Lighthouse, Milford Haven -	80 41 40 SW 43 37 25 SW	142092 W	618390 S
Marros Beacon - Precelly Top -	Warren Spire -	66 49 32 SW 23 40 38 SW	100049 W	634818 S
Marros Beacon - Precelly Top -	St. Petrox Steeple -	63 49 42 SW 18 9 58 SW	87459 W	634190 S
Precelly Top - Plumstone Down -	Nipple Rock -	58 29 44 NW 34 5 14 NE	79930 W	604860 S
Plumstone Down - Precelly Top -	Haverfordwest Spire	33 [illegible]7 39 SE 42 44 45 SW	95794 W	571820 S
Precelly Top - Plumstone Down -	Prendergest Steeple	40 22 47 SW 38 22 20 SE	93808 W	573164 S
Precelly Top - Plumstone Down -	Pencairn	70 44 30 NW 6 4 17 NW	116723 W	499665 S
Plumstone Down - Precelly Top -	Roch Castle	52 16 57 SW 63 1 58 SW	119775 W	557733 S
Precelly Top - Plumstone Down -	Summer House in Lord Milford's Park	21 48 3 SW 50 41 52 SE	74358 W	[illegible] S
St. Ann's Hill - Precelly Top -	Stainton Steeple -	69 3 11 NE 35 [illegible]3 52 SW	105970 W	[illegible]21179 S
St. Ann's Hill - Precelly Top -	Johnston Steeple -	65 40 10 NE 35 [illegible] 25 SW	[illegible] W	597544 S
Plumstone Down - St. Ann's Hill -	St. Twinell's Steeple	11 20 [illegible] SE 66 32 51 SE	94409 W	534330 S
Plumstone Down - St. Ann's Hill -	Gresholm Isle -	63 57 41 SW 78 19 57 NW	210387 W	599817 S
Plumstone Down - St. Ann's Hill -	Small's Light House	72 2 [illegible] SW 84 17 26 NW	254035 W	603000 S
Plumstone Down - St. Ann's Hill -	St. Daniel's Spire	20 20 35 SE 79 48 23 SE	84046 W	624506 S
St. Ann's Hill - Highgate Mountain	Hubberston Steeple	73 24 [illegible] NE 52 39 46 NW	114673 W	606696 S
St. Ann's Hill - Highgate Mountain	Milford Steeple -	78 41 25 NE 47 24 19 NW	108770 W	608038 S
Plumstone Down - Highgate Mountain	Mote Steeple -	82 13 39 NE 18 23 12 NE	60591 W	542414 S
Plumstone Down - Highgate Mountain -	Castel Baith Steeple	60 51 26 NE 8 18 14 NE	74577 W	530692 S
Precelly Top - Highgate Mountain -	Maenclochog Steeple	14 19 31 SW 20 40 56 NE	54058 W	535169 S
Rhiw Mountain - Moel Rhyddlad -	Rivel Mountain -	39 34 15 NE 9 32 6 SE	24725 E	147200 S
Llwydiarr Mountain Llanelian Mountain	Penmaen Mawr	86 28 20 SE 56 30 17 SE	131314 E	42702 S

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Llwydiart Mountain	Coedana Steeple -	74 45 14 NW	43104 E	24199 S
Llanelian Mountain		19 37 24 SW		
Llwydiart Mountain	Ynys Gadarn -	20 44 32 NW	64274 E	3524 S
Llanelian Mountain		64 51 41 SE		
Llwydiart Mountain	Ynys traeth Bychan	16 46 31 NW	70409 E	7256 S
Llanelia Mountain		45 53 45 SE		
Llanelian Mountain	Skerry Light house	83 35 44 NW	12993 W	15649 N
Moel Rhyddlad -		39 42 8 NW		
Llanelian Mountain	Amlwch Steeple	53 25 15 SW	45907 E	1604 N
Moel Rhyddlad -		87 59 54 NE		
Llanelian Mountain	West Mouse -	83 39 1 NW	1286 W	14281 N
Moel Rhyddlad -		5 8 43 NW		
Moel Rhyddlad -	Llanelian Spire -	77 27 55 NE	53435 E	11880 N
Llanelian Mountain		17 4 7 NW		
Llanelian Mountain	Point Elianus Signal Staff - -	18 54 28 NE	56628 E	13960 N
Moel Rhyddlad -		76 9 8 NE		

ART. IV. ***Bearings and Distances of several Church Steeples, and other Objects of Note, in the Fourth Section of the present Work, from the Parallels and Perpendiculars to their respective Meridians.***

Meridian of Moel Rhyddlad.

New Inn Hill -	Brenin Fawr -	89 3 59 NW	15604 W	509105 S
Precelly Top -		68 57 53 NE		
Capel Kynon -		47 33 59 SW		
Precelly Top -	Ferwig Steeple -	23 47 55 NE	23741 W	461253 S
Brenin Fawr -		9 39 5 NW		
Precelly Top -	Barrow near Pantseison	15 56 25 NE	37154 W	474652 S
Brenin Fawr -		32 1 35 NW		
Brenin Fawr -	Cardigan Island, highest Point -	7 8 35 NW	32227 W	455210 S
Barrow near Pantseison		14 13 25 NE		
Brenin Fawr -	Llanfihangel Penbedw Steeple -	4 50 55 NE	14330 W	494093 S
Barrow near Pantseison		49 34 35 SE		
Precelly Top -	Warren Bank -	31 55 25 NE	16650 W	467746 S
Brenin Fawr -		1 27 5 NW		
Brenin Fawr -	Cardigan Steeple	13 2[illegible] 35 NW	24203 W	472883 S
Warren Bank -		55 46 25 SW		
Plumstone Down -	Penberry Rock -	68 37 31 NW	158004 W	532839 S
St. Ann's Hill -		12 10 3 NW		
St. Ann's Hill -	Llaeithty Rock -	19 6 51 NW	167200 W	537105 S
Penberry Rock -		65 7 8 SW		

Names of Stations	and intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Penberry Rock	St. David's Cathedral	19 36 38 SW	162471 W	545378 S
Llaeithty Rock		29 45 22 SE		
Penberry Rock	Bishop and his Clerks highest point of N. Isl	81 15 53 SW	189168 W	537627 S
St. David's Cathedral		73 48 37 NW		
Plumstone Down	Ramsey Island, highest point	88 53 0 SW	180391 W	552486 S
St. Ann's Hill		32 51 22 NW		
New Inn Hill	Llangynog Mountain	35 59 50 SW	31920 E	569862 S
Precelly Top		60 19 8 SE		
Marros Beacon	Ludchurch Steeple	67 11 24 NW	33106 W	588464 S
Highgate Mountain		55 29 11 NE		
Marros Beacon	Worms Head, West Point	43 37 33 SE	49160 E	661669 S
Lannon		30 53 26 SW		
Worms Head	Laugharne Steeple	21 6 19 NW	19500 E	584824 S
Llangynog Mountain	Llansaint Hill, Barrow	44 43 25 SE	53681 E	591834 S
New Inn Hill		14 41 32 SW		
Llangynog Mountain	Llanstephan Castle	11 31 55 SE	35754 E	588622 S
Llansaint Hill		79 51 58 NW		
Llansaint Hill	Mancha Hill	58 51 8 NE	78403 E	576877 S
Llangynog Mountain		81 25 37 SE		
Mancha Hill	Carmarthen (House at west end)	55 23 49 NW	49356 E	556836 S
Llangynog Mountain		53 13 16 NE		
Brenin Fawr	Moelfre Barrow	82 26 7 NE	24613 E	503762 S
Capel Kynon		17 26 7 SW		
Moelfre Barrow	Bettws Einon	13 50 26 NW	15312 E	466020 S
Capel Kynon		74 41 7 SW		
Capel Kynon	Penboir Church	3 37 0 SW	3[illegible]733 E	502753 S
Moelfre Barrow		84 51 47 NE		
New Inn Hill	Crug Edrid	40 48 54 NE	92661 E	490111 S
Capel Kynon		60 41 21 SE		
Crug Edrid	Llanwenog Steeple	36 29 14 NW	78454 E	470[illegible]02 S
New Inn Hill		4 59 46 NE		
Crug Edrid	Brechva Mountain	14 14 21 SW	83387 E	526659 S
New Inn Hill		27 35 19 SE		
Crug Edrid	Dinas Rock	70 2 20 SE	123655 E	501370 S
Brechva Mountain		57 52 18 NE		
Margam Down	Trecastle Beacon, New Station	1 6 59 NW	189549 E	544058 S
Kilvey Windmill		26 16 17 NE		
Kilvey Windmill	Carreg Glwydd	13 40 9 NE	162514 E	558560 S
Margam Down		17 9 48 NW		
Margam Down	Mumbles Lighthouse	82 45 18 SW	131387 E	660632 S
Kilvey Windmil		27 31 1 SW		
Kilvey Windmill	Swansea Castle	59 14 27 SW	138006 E	64103[illegible] S
Margam Down		77 27 51 NW		
Carreg Glwydd	Trechrig Mountain	4[illegible] 47 43 NW	148610 E	542442 S
Trecastle Beacon		87 43 5[illegible] NW		
Trechrig Mountain	St. Mary on the Hill, Llandovery	27 54 39 NE	170153 E	501770 S
Trecastle Beacon		24 58 21 NW		
Cefn Bryn	Llanelly Steeple	7 33 38 NW	87932 E	618250 S
Penbree Steeple		87 5 59 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian. Feet.	Distance from Perpendicular. Feet.
Cefn Bryn - Llanelly Steeple -	Rosilly Barrow -	87 21 22 SW 34 34 48 SW	60877 E	57535 S
Carreg Glwydd - Margam Down -	Lannon Steeple -	62 47 14 SW 56 57 6 NW	97755 E	591864 S
Kilvey Windmill - Margam Down -	Tre Carn Issa -	0 43 16 NE 27 48 29 NW	144152 E	562872 S
Trechrig Mountain Tre Carn Issa -	Great Mountain -	57 3 4 SW 82 22 47 SW	110044 E	567433 S
Trechrig Mountain Great Mountain -	Taliaris Pigeon House	51 29 26 NW 26 30 4 NE	129922 E	527578 S
Trechrig Mountain Taliaris Pigeon House	Llandilo Steeple -	81 53 30 SW 13 30 30 SW	125565 E	545725 S
Great Mountain - Trechrig Mountain -	Llangadock Steeple	42 57 23 NE 4 39 4 NE	150069 E	524452 S
Great Mountain - Trechrig Mountain	Nelson's Tower -	50 58 33 NW 74 25 49 SW	96970 E	556830 S

Meridian of Delamere Forest.

Llangeinor Mountain Ogmoor Down -	Margam Down -	57 10 43 SW 27 13 55 NW	231901 W	595318 S
Ogmoor Down - Margam Down -	St. Mary Hill Steeple	60 41 36 NE 56 0 51 SE	86148 W	626167 S
Ogmoor Down - Margam Down -	Signal Staff, Newton Down -	42 58 52 NW 15 30 18 SE	224143 W	623282 S
Garth Hill - Ogmoor Down -	Carn Vawr -	59 10 47 NW 20 12 12 NE	188387 W	582274 S
Garth Hill - Ogmoor Down -	Signal Staff, Stalling Downs -	42 16 52 SW 83 47 10 SE	167357 W	643750 S
Garth Hill - Ogmoor Down -	St. Hilary Steeple	39 55 53 SW 81 3 9 SE	166836 W	645865 S
Newton Down - Margam Down -	Kenfig Steeple -	65 47 48 NW 9 47 19 SW	235819 W	618034 S
Ogmoor Down - St. Mary Hill Steeple	Bridgend Steeple -	18 22 36 NE 83 15 54 NW	204292 W	624023 S
Ogmoor Down - Bridgend Steeple -	Llaleston Steeple -	14 52 36 NW 85 41 58 SW	213173 W	624694 S

Meridian of Black Down

Brent Knoll - Bagborough -	Bridgewater Spire	16 46 1 SW 81 37 56 NE	104718 W	161282 N
Brent Knoll - water Spire	Huntspill Steeple	32 58 49 SW 4 20 28 NE	102600 W	189170 N

Names of Stations and Intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Bridgewater Spire - Bagborough -	Cannington -	56 15 58 NW 56 7 23 NE	121662 W	172589 N
Bridgewater Spire Bagborough -	Staple Hill -	15 18 34 SW 22 30 10 SE	122980 W	94570 N
Bridgewater Spire Staple Hill -	Castlineroach -	6 41 45 SW 75 17 1 SE	112862 W	91913 N
Bagborough - Brompton Ralph -	Sampford -	15 8 19 SW 14 46 15 SE	164262 W	94763 N
Haddon Beacon - Bagborough -	Newts Down -	4 0 48 SE 38 27 50 SW	210748 W	75923 N
Haddon Beacon - Newts Down -	Christ Cross -	0 52 27 SE 8 15 40 SW	213587 W	56380 N
Christ Cross - Newts Down -	Whitestone Station	42 25 44 SW 32 31 31 SW	245402 W	21578 N
Christ Cross - Sampford -	Kentisbeare -	73 2 25 NE 13 8 22 SW	170136 W	69597 N
Bagborough - Staple Hill -	Dumpdon -	2 20 6 SE 26 28 23 SW	143810 W	52733 N
Castlineroach - Staple Hill -	Yartcombe -	25 36 18 SW 2 50 41 SW	124299 W	68046 N
Dumpdon - Yartcombe -	Harner Hill -	75 17 18 SE 13 18 1 SE	119142 W	46252 N
Dumpdon - Harner Hill -	Combe Rawleigh -	75 15 54 SW 83 46 39 NW	153993 W	50053 N
Sampford - Kentisbeare -	Gaddon Hill -	37 36 28 SW 56 39 13 NW	179103 W	75496 N
Sampford - Gaddon Hill -	Culmstock -	14 10 57 SW 44 41 47 NE	165710 W	89032 N
Christ Cross - Whitestone -	Obelisk, Haldon -	8 25 29 SW 23 34 48 SE	225496 W	24031 S
Obelisk - Whitestone -	Haldon, Old Station	41 54 6 NW 12 19 36 SE	238636 W	9386 S
Haldon Old Station Whitestone -	Haldon, New Station	57 45 18 SE 22 38 32 SE	230291 W	14650 S
Haldon New Station Whitestone -	Exeter Cathedral -	6 8 42 NE 69 24 33 SE	227130 W	14710 N
Sampford - Kentisbeare -	Wherry Farm -	10 28 39 SW 0 2 54 SW	170142 W	62966 N
Sampford - Wherry Farm -	Upcot Pen -	8 18 14 SW 27 8 8 SE	169178 W	61083 N
Sampford - Upcot Pen -	Woolford Lodge -	12 7 23 SE 48 40 30 SE	154194 W	47911 N
Woolford Lodge - Upcot Pen -	Hembury Fort -	83 4 29 NW 20 35 52 SE	164701 W	49190 N
Hembury Fort - Woolford Lodge -	North Ottery Moor -	16 19 39 SE 12 55 36 SW	158644 W	28522 N
Hembury Fort - North Ottery Moor	South Ottery Moor	0 48 37 SE 19 58 29 SW	165248 W	10354 N
South Ottery Moor North Ottery Moor	West Ottery Moor	55 6 31 NW [illegible] SW	181493 W	21684 N

Names of Stations and intersected Objects.		Bearings.				Distance from Meridian.	Distance from Perpendicular.
		°	'	"		Feet.	Feet.
Huntspill Steeple -	Berrow Steeple -	9	15	11	NW	106334 W	212082 N
Brent Knoll -		72	39	11	NW		
Huntspill Steeple -	Burnham Steeple -	0	59	11	NW	102823 W	202085 N
Brent Knoll -		66	37	49	SW		
Huntspill Steeple -	Mark Steeple -	72	24	49	NE	77710 W	197059 N
Brent Knoll -		52	14	11	SE		
Huntspill Steeple	Woolavington Steeple	48	54	11	SE	883329 W	176721 N
Brent Knoll -		4	45	11	SE		
Huntspill Steeple -	North Petherton Steeple	6	13	15	SW	107056 W	148284 N
Cannington -		30	59	45	SE		
North Petherton Steeple	Weston in Zoyland Steeple -	73	30	15	NE	86952 W	154238 N
Cannington -		62	7	45	SE		
North Petherton Steeple	Burrow Mount Chapel	70	30	45	SE	84424 W	140274 N
Cannington -		49	2	45	SE		
Huntspill Steeple -	Enmore Steeple -	31	52	15	SW	123651 W	155311 N
Cannington -		6	34	15	SW		
Brompton Ralph -	Black Hill - -	56	48	27	NW	206783 W	168592 N
Haddon Beacon -		12	38	33	NE		
Black Hill -	Lype Hill -	56	54	33	SW	218634 W	160869 N
Haddon Beacon -		7	54	27	NW		
Black Hill -	Grabbist Hill -	39	11	57	NW	219508 W	184192 N
Lype Hill -		2	8	27	NW		
Black Hill -	St. Decuman's Steeple	66	51	33	NE	181189 W	179531 N
Grabbist Hill -		83	3	57	SE		
Black Hill -	Minehead Steeple	15	35	57	NW	213508 W	192666 N
Grabbist Hill -		35	18	3	NE		
Grabbist Hill -	Cutcombe Steeple -	18	43	33	SW	225672 W	167783 N
Lype Hill -		42	56	27	NW		
Haddon Hill -	Heydon Hill -	86	48	45	SE	190325 W	131649 N
Brompton Ralph -		31	19	5	SW		
Heydon Hill -	Bampton -	40	49	15	SW	206806 W	112570 N
Haddon Beacon -		21	15	45	SE		
Bampton -	Honiton Down -	80	52	45	SE	189659 W	109818 N
Haddon Beacon -		47	15	45	SE		
Bampton -	Bampton Tree -	78	34	45	NW	221006 W	115440 N
Haddon Beacon -		19	35	5	SW		
Bampton Tree -	West Anstey -	56	13	55	NW	247601 W	133224 N
Haddon Beacon -		89	37	55	NW		
Bampton Tree -	Dulverton Station -	36	6	55	NW	231460 W	129772 N
Haddon Beacon -		79	1	5	SW		
Heydon Hill -	Brompton Regis -	68	48	45	NW	218174 W	142445 N
Haddon Beacon -		19	53	45	NW		
Bampton -	Morebath Steeple -	49	32	45	NW	217030 W	121288 N
Honiton Down -		67	15	45	NW		
Dulverton Station -	Dulverton Steeple -	60	18	9	SW	232985 W	128904 N
Bampton Tree -		41	39	55	NW		
Sampford -	Holcombe Rogus -	69	51	14	NW	183365 W	101771 N
Culmstock -		54	11	13	NW		
Culmstock -	Uffculme Steeple -	59	33	21	SW	180941 W	80080 N
Gaddon Hill -		21	49	55	NW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Bagborough - Staple Hill -	Wellington Steeple	9 29 1 SW 67 31 32 NW	155796 W	108143 N
Bagborough - Staple Hill -	St. Mary's, Taunton	31 20 35 SE 8 51 49 NW	127025 W	120511 N
Staple Hill - Bagborough -	Cothelstone Lodge -	17 56 47 NW 45 10 47 SE	139939 W	146927 N
Staple Hill - Bagborough -	Lady Chatham's Obelisk	57 44 27 NE 65 8 23 SE	78423 W	122690 N
Brompton Ralph - Bagborough -	Bishop's Lydiard -	67 41 44 SE 2 53 5 SE	147093 W	137297 N
Brompton Ralph - Bagborough -	Wiveliscombe Steeple	10 59 58 SE 47 35 5 SW	175011 W	130234 N
Wellington Steeple - Staple Hill -	Milverton Steeple -	21 28 32 NW 52 45 32 NW	162178 W	124366 N
Bagborough - Brompton Ralph -	Combe Florey Steeple	20 20 55 SW 70 10 54 SE	153120 W	141070 N
Wellington Steeple - Milverton Steeple -	Norton Fitzwarren -	47 25 28 NE 88 53 28 NE	37623 W	124839 N
Wellington Steeple - Milverton Steeple -	Langford Budville	12 41 28 NE 61 13 32 SE	153247 W	119460 N
Wellington Steeple Milverton Steeple -	Buckland Steeple -	82 48 32 SE 44 9 32 SE	145118 W	106794 N
Wellington Steeple Milverton Steeple -	Hill Farence -	35 2 28 NE 75 16 32 SE	17184 W	120424 N
Castlineroach - Staple Hill -	Fivehead Steeple -	48 46 43 NE 60 20 18 NE	85394 W	115977 N
Castlineroach - Staple Hill -	Curry Mallet Steeple	50 39 32 NE 65 15 42 NE	92465 W	108631 N
Castlineroach - Staple Hill -	West Hatch Steeple	14 51 32 NE 45 39 3 NE	108366 W	108857 N
Castlineroach - Staple Hill -	Ilton Steeple -	78 37 59 NE 85 50 59 NE	86456 W	97221 N
Castlineroach - Staple Hill -	Thorne Falcon Steeple	8 6 59 NE 30 18 59 NE	109096 W	118316 N
Culmstock - Kentesbeer -	Columpton Steeple -	47 40 34 SW 74 30 41 SW	194455 W	62856 N
Hembury Fort - North Ottery Moor	St. Mary Ottery Steeple	10 7 52 SW 71 0 6 SW	169032 W	24946 N
Hembury Fort - North Ottery Moor	Bradninch Steeple -	84 26 35 NW 60 38 5 NW	201791 W	52798 N
North Ottery Moor Hembury Fort -	Honiton Chapel -	38 45 5 NE 67 2 24 SE	147802 W	42032 N
Dumpdon - Harner Hill -	Widworthy -	37 19 18 SE 47 25 42 SW	130745 W	35592 N
Widworthy - Harner Hill -	Hawk Church -	82 4 42 NE 80 54 18 SE	88906 W	41412 N
Widworthy - Harner Hill -	Beer Signal Staff -	2 3[illegible] 18 SE 12 30 42 SW	129208 W	884 N
Christcross - Whitestone -	Newton St. Cyrus Steeple -	48 50 58 SW 22 3 36 NE	141008 W	32417 N

Names of Stations and intersected Objects.		Bearings. ° ′ ″	Distance from Meridian. Feet.	Distance from Perpendicular. Feet.
Christcross - Whitestone -	Gernseys Gazebo -	72 40 24 NE 57 32 54 NE	168586 W	70421 N
Christcross - Whitestone -	Woodbury Signal Staff	18 16 29 SE 53 23 3 SE	185977 W	22578 S
Black Down - Bullbarrow -	Ninebarrow Down -	81 27 12 SE 42 28 53 NW	125374 E	18843 S
Ninebarrow Down Bullbarrow -	Wingreen -	10 31 28 NW 43 58 8 NE	101588 E	109190 N
Wingreen - - Bullbarrow -	Trinity Steeple, Shaftsbury -	70 19 50 NW 25 15 10 SW	80662 E	16684 N
Wingreen - Bullbarrow -	Duncliffe Hill -	79 16 50 NW 15 26 10 NE	69067 E	15347 N
Wingreen - Bulbarrow -	Melbury Hill -	79 27 10 SW 33 38 10 NE	84606 E	106030 N
Wingreen - Bullbarrow -	Badbury Rings -	12 56 50 SE 82 28 50 SE	114868 E	51400 N
Wingreen - Bullbarrow -	Ringwood Steeple -	55 40 0 SE 89 57 50 NE	174246 E	59564 N
Wingreen - Bullbarrow -	Horton Gazebo -	37 36 0 SE 87 0 0 NE	136518 E	63832 N
Wingreen - Trinity Steeple -	Bellchalwell Telegraph	45 9 10 SW 22 21 40 SW	60882 E	68700 N
Wingreen - Trinity Steeple -	Hamilton Hill -	46 8 40 SW 9 45 10 SW	74932 E	83578 N
Wingreen - Trinity Steeple -	West Knoyle Steeple	28 52 50 NW 1 24 50 NW	79833 E	148630 N
Wingreen - Trinity Steeple -	Kingsettles -	50 24 50 NW 10 55 10 NE	82259 E	25172 N
Wingreen - Bradley Knoll -	Pen Selwood Steeple -	57 54 10 NW 25 11 50 SW	45897 E	144118 N
Wingreen - Bradley Knoll -	Alfred's Tower -	51 32 10 NW 57 43 50 SW	42303 E	156283 N
Wingreen - Bradley Knoll -	Fonthill Abbey -	4 5 10 NW 63 40 10 SE	99165 E	143074 N
Wingreen - Bellchalwell Telegraph	Blandford Telegraph	0 31 10 SW 85 30 10 NE	101250 E	71876 N
Trinity Steeple - Bullbarrow -	Gillingham Steeple	57 4 50 NW 7 18 10 NE	62478 E	128431 N
Horton Gazebo - Wingreen -	Pistle Down Telegraph	54 50 0 NE 60 38 0 SE	156801 E	78122 N
Wingreen - Badbury Rings -	Chalbury Telegraph	34 23 20 SE 53 5 50 NE	132225 E	64426 N
Badbury Rings - Chalbury Telegraph	Wimborne Steeple -	55 58 10 SE 6 37 50 SW	129557 E	41485 N
Wingreen - Pistle Down Telegraph	Pentridge Hill -	73 13 0 SE 41 46 0 NE	139181 E	97852 N
Trinity Steeple - Bullbarrow -	Sturminster Steeple	38 43 10 SW 6 29 10 NE	56763 E	86923 N
Wingreen - Pentridge Hill -	Caishmoor Mill -	40 41 0 SE 59 9 0 SW	110781 E	86862 N

Names of Stations	and intersected Objects.	Bearings. ° ′ ″	Distance from Meridian. Feet.	Distance from Perpendicular. Feet.
Wingreen - Pentridge Hill -	Cranborne Steeple	36 0 SE 27 0 SE	144148 E	85209 N
Wingreen - Kingsettles -	Wardour Castle -	13 10 NE 58 10 NE	102387 E	129830 N
Trinity Steeple Gillingham Steeple	Mere Steeple -	50 50 NW 17 10 NE	63876 E	147085 N
Trinity Steeple - Sturminster Steeple	Hinton Steeple, *Dorset*	55 10 SW 37 50 NW	56316 E	93954 N
Trinity Steeple Hinton Steeple -	Iwerne Minster -	3 50 SE 11 50 SE	83088 E	88846 N
Wingreen - Ninebarrow Down	Christ Church -	17 20 SE 4 30 NE	179351 E	17461 N
Ninebarrow Down Christ Church	Poole Steeple -	19 40 NE 44 30 SW	129630 E	10246 N
Black Down - Ninebarrow Down	Wareham Steeple -	34 50 SE 38 50 NW	102508 E	750 S
Christ Church - Ninebarrow Down	Brownsea Castle -	53 30 SW 14 0 NE	137005 E	1120 N
Christ Church - Brownsea Castle	Poole Heath -	8 0 SW 58 30 NE	142022 E	12966 N
Christ Church - Poole Heath -	Stutland Signal Staff	34 0 SW 40 0 SW	141641 E	19512 S
Black Down - Ninebarrow Down	Wyke Regis Steeple -	57 30 SE 4 30 SW	16321 E	32088 S
Black Down - Ninebarrow Down	Dorchester Steeple. -	57 10 NE 32 30 NW	25974 E	10521 N
Black Down - Dorchester Steeple	Ridgeway Station -	35 50 SE 51 40 SW	21890 E	6030 S
Black Down - Ridgeway Station -	Portland Lighthouse	38 50 SE 20 40 SW	21563 E	60396 S
Ridgeway Station - Dorchester Steeple	Lulworth Flagstaff -	59 0 SE 59 20 SE	53951 E	21677 S
Black Down - Dorchester Steeple	Godmanstone Down -	36 40 NE 11 50 NW	12410 E	28391 N
Black Down - Godmanstone Down	Aggerdon Hill -	23 20 NW 41 10 SW	21314 W	21027 N
Black Down - Aggerdon Hill -	Abbotsbury Signal Staff	23 40 SW 19 20 SW	17569 W	4578 S
Abbotsbury, Sta Aggerdon Hill	Shipton Beacon -	8 20 NW 15 40 SW	35022 W	14711 N
Shipton Beacon Aggerdon Hill	Puncknoll. -	2 20 SE 7 40 SW	25740 W	437 N
Bullbarrow Duncliffe Hill	Wincanton Steeple -	42 50 SW 19 50 NW	31148 E	134392 N
Trinity Steeple Hinton Steeple	Henstridge Steeple -	30 10 SW 40 50 NW	35240 E	105791 N
Pilsdon Hill Mintern -	Montacute's Signal Staff	11 40 NE 10 20 NW	39912 W	96134 N
Pilsdon Hill - Montacute's Signal Staff	Pen Hill - -	43 40 NE 11 20 SE	32182 W	69515 N

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Pilsdon Hill -	Barrow Hill -	0 11 20 NW	65980 W	106259 N
Montacute's Staff -		68 47 20 NW		
Barrow Hill -	South Petherton -	29 15 20 SE	59846 W	95283 N
Montacute's Staff -		87 32 40 SW		
Mintern -	Newton Summer House	41 0 20 NW	17204 W	91144 N
Ash Beacon -		40 39 40 SW		
Mintern -	Glastonbury Tor -	22 40 20 NW	34311 W	167168 N
Ash Beacon -		38 48 50 NW		
Barrow Hill -	Ilchester Steeple -	74 2 10 NE	30275 W	116472 N
Montacute's Staff -		25 21 40 NE		
Pilsdon Hill -	Warren Signal Staff -	4 56 20 NW	68317 W	73365 N
Pen Hill -		83 55 20 NW		
Newton Summer House	Leweston Hill -	68 32 20 SE	1788 E	83677 N
Ash Beacon -		6 18 40 SW		
Leweston Hill -	Yetminster Steeple -	46 17 40 SW	6690 W	75572 N
Newton Summer House		34 1 20 SE		
Yetminster Steeple	Sherborne Steeple -	36 22 40 NE	7480 E	94808 N
Leweston Hill -		27 4 40 NE		
Newton Summer House	Yeovil Steeple -	43 22 20 NW	19208 W	93266 N
Leweston Hill -		65 27 20 NW		
Pilsdon Hill -	Broad Windsor -	57 31 40 NE	57945 W	48937 N
Warren Signal Staff -		23 0 20 SE		
Pilsdon Hill -	Winyard's Gap -	60 16 40 NE	39825 W	58769 N
Warren Signal Staff -		62 52 20 SE		
Winyard's Gap -	Crewkerne Steeple -	52 34 20 NW	57554 W	72337 N
Warren Signal Staff -		84 32 20 SE		
Beacon Hill -	Clay Hill Barrow -	86 56 50 NW	72590 W	188636 N
Bradley Knoll -		35 23 10 NE		
Bradley Knoll -	Milk Hill -	49 59 20 NE	159541 E	251938 N
Beacon Hill -		23 25 0 NW		
Bradley Knoll -	Frome Spire -	5 22 50 NW	52390 E	198267 N
Clay Hill Barrow -		64 29 50 NW		
Bradley Knoll -	Whatley Spire -	28 1 50 NW	38243 E	197178 N
Clay Hill Barrow -		76 1 50 NW		
Bradley Knoll -	Leigh Steeple -	44 35 50 NW	24550 E	196094 N
Clay Hill -		81 10 50 NW		
Bradley Knoll -	Buckland Steeple -	13 17 50 NW	45011 E	209279 N
Clay Hill -		53 10 50 NW		
Milk Hill -	Red Horn Clump -	23 58 0 SW	146689 E	223025 N
Beacon Hill -		46 36 0 NW		
Milk Hill -	Pewsey Steeple -	55 26 0 SE	178920 E	230502 N
Red Horn, Clump -		64 14 0 NE		
Milk Hill -	Devizes Steeple -	75 58 0 SW	127153 E	243841 N
Red Horn Clump -		43 11 0 NW		
Red Horn Clump -	Chittern Windmill -	30 22 0 SW	125890 E	187518 N
Beacon Hill -		85 24 0 NW		
Clay Hill -	Steeple Ashton -	28 39 10 NE	94569 E	228840 N
Milk Hill -		70 25 30 SW		
Steeple Ashton -	Seend Steeple -	44 9 30 NE	106641 E	241262 N
Milk Hill -		78 35 10 SW		

Names of Stations and intersected Objects.		Bearings. ° ′ ″	Distance from Meridian.	Distance from Perpendicular.
			Feet.	Feet.
Steeple Ashton	Hinton Steeple, *Somerset*	85 9 50 NW	51932 E	232449 N
Clay Hill		25 14 50 NW		
Bradley Knoll	White Horse New Station	38 42 0 NE	92271 E	210468 N
Beacon Hill		73 55 0 NW		
White Horse	Trowbridge Spire	33 42 0 NW	78090 E	231726 N
Bradley Knoll		18 34 0 NE		
White Horse	Farley Clump	36 1 0 NW	58846 E	256439 N
Bradley Knoll		2 3 0 NE		
Farley Clump	Melksham Steeple	80 12 0 SE	93232 E	250499 N
White Horse		1 23 0 NE		

Meridian of Butterton Hill.

Butterton Hill	Rippon Tor New Station	26 51 33 SE	28516 E	56308 N
Rippon Tor Old Station		17 25 37 NW		
Rippon Tor New Station	Horner Down	5 56 3 SE	35873 E	14467 S
Butterton Hill		68 2 13 SE		
Horner Down	Denbury	18 30 37 NE	52015 E	33753 N
Rippon Tor		46 10 18 SE		
Horner Down	Church Stow	31 3 17 SW	19746 E	41255 S
Butterton Hill		25 34 23 SE		
Horner Down	Morleigh Camp	30 25 38 SE	40145 E	21745 S
Butterton Hill		61 33 38 SE		
Rippon Tor	Totness Steeple	21 40 18 SE	47998 E	7280 N
Denbury		8 37 42 SW		
Totness Steeple	Marldon Beacon	73 18 2 NE	66332 E	12780 N
Denbury		34 19 18 SE		
Totness Steeple	Willman Hill	79 48 58 SE	64899 E	4244 N
Marldon Beacon		9 31 32 SW		
Horner Down	Higher East Close	81 5 53 SE	61180 E	18433 S
Rippon Tor		23 36 23 SE		
Horner Down	Bigbury Spire	51 10 57 SW	5080 E	39242 S
Butterton Hill		7 22 43 SE		
Horner Down	Marlborough Spire	20 27 18 SW	18404 E	61298 S
Butterton Hill		16 42 32 SE		
Marlborough Spire	Portlemouth	72 25 26 SE	32292 E	65685 S
Church Stow		27 11 26 SE		
Butterton Hill		26 11 8 SE		
Butterton Hill	Kingston Steeple	9 5 7 SW	5713 E	35723 S
Bigbury		71 57 3 NW		
Portlemouth	Charleton Steeple	0 13 34 NE	32347 E	51712 S
Church Stow		50 16 16 SE		
Church Stow	Buckland Tout Saints	86 22 44 SE	34418 E	40326 S
Portlemouth		4 46 54 NE		

Names of Stations	and intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Portlemouth -	Marlborough Station	67 26 26 NW	14844 E	58435 S
Church Stow -		15 55 24 SW		
Marlborough Station	West Allington Steeple	39 28 4 SE	23639 E	47752 S
Portlemouth -		25 46 16 NW		
Portlemouth -	South Pool Station -	63 21 44 NE	42984 W	60325 S
Church Stow -		50 37 36 SE		
South Pool Station -	Chivelstone Station -	6 36 36 SE	43339 E	63392 S
Portlemouth -		78 16 24 NE		
Chivelstone Station -	Salcombe Chapel -	89 43 26 SW	29525 E	63325 S
Portlemouth -		49 34 36 NW		
Morleigh Camp -	Wallaton Cross -	20 32 0 SE	44095 E	32290 S
Higher East Close -		51 3 40 SW		
Wallaton Cross -	Black Alton -	34 0 50 NE	49674 E	24024 S
Morleigh Camp -		76 32 50 SE		
Butterton Hill -	Holland Hill -	26 24 8 SW	8104 W	16330 S
Hemerdon Ball -		54 3 52 SE		
Holland Hill -	Modbury Spire -	51 35 52 SE	762 E	23353 S
Butterton Hill -		1 52 6 SE		
Holland Hill -	Ugborough Spire -	66 5 8 NE	7471 E	9419 S
Butterton Hill -		38 25 16 SE		
Brent Tor -	Cock's Tor -	56 20 25 SE	42396 W	56524 N
Black Down -		30 22 25 SE		
Brent Tor -	Kit Hill New Station	45 8 35 SW	93041 W	39295 N
Cock's Tor -		71 12 35 SW		
Cock's Tor -	St. Budeaux Steeple	22 44 35 SW	65899 W	444 N
Kit Hill -		34 56 15 SE		
St. Stephens Down -	Bradbury Castle -	58 22 54 NE	59524 W	120224 N
Black Down -		9 12 30 NW		
Cawsand Beacon -		76 38 4 NW		
St Stephens Down -	Warbstow Barrow -	71 19 8 NW	152334 W	101118 N
Bradbury Castle -		78 22 5 SW		
St. Stephens Down -	Bratton Clovelly -	67 16 44 NE	65678 W	107224 N
Bradbury Castle -		25 20 15 SW		
St. Stephens Down -	Ashwater -	35 15 58 NE	91168 W	117735 N
Bradbury Castle -		85 30 44 SW		
St. Stephens Down -	North Tamerton Steepl	5 24 35 NW	115899 W	123988 N
Warbstow Barrow -		57 53 7 NE		
Warbstow Barrrow -	Beacon Moor, Holsworthy -	53 53 54 NE	91760 W	145295 N
St. Stephens Down -		19 44 34 NE		
Warbstow Barrow -	Kilkhampton	12 59 38 NE	136566 W	169451 N
St. Stephens Down -		16 25 9 NW		
Warbstow Barrow -	Holsworthy Steeple	45 59 18 NE	106027 W	145855 N
St. Stephens Down -		6 18 5 NE		
St. Stephens Down -	Bridgerule Steeple	14 13 49 NW	126468 W	142885 N
Warbstow Barrow -		31 46 11 NW		
Cawsand Beacon -	Great Haldon	76 59 7 SE	73280 E	89204 N
Rippin Tor -		53 27 48 NE		
Great Haldon -	Palk's Tower	49 39 32 NW	69876 E	92095 N
Rippin Tor -		48 54 38 NE		

Names of Stations and intersected Objects.		Bearings. ° ′ ″	Distance from Meridian. Feet.	Distance from Perpendicular. Feet.
Bradbury Castle	Beacon Moor	44 29 47 NE	7762 E	188702 N
Cawsand Beacon		11 32 9 SW		
Cawsand Beacon	Spreyton	48 22 26 NE	10558 E	125241 N
Bradbury Castle		85 54 21 NE		
Cawsand Beacon	Winckley Steeple	3 7 29 NW	11611 W	161866 N
Bradbury Castle		49 0 9 NE		
Cawsand Beacon	Hatherleigh Station	34 19 49 NW	37155 W	149842 N
Bradbury Castle		37 3 26 NE		
Cawsand Beacon	West Morchard Steeple	39 8 37 NE	34460 E	161170 N
Great Haldon		28 14 47 NW		
Hatherleigh Station	High Hampton Steeple	89 3 19 SW	58245 W	149494 N
Bradbury Castle		2 29 35 NE		
Holsworthy	Pancras Week Steeple	69 17 45 NW	121569 W	151730 N
St. Stephen's		8 5 33 NW		
Bradbury Castle	Budleigh Steeple	60 3 26 NE	5290 W	151463 N
Cawsand Beacon		4 28 37 NE		
Bradbury Castle	North Tawton, Steeple	70 13 51 NE	661 W	141386 N
Cawsand Beacon		13 33 27 NE		
Cawsand Beacon	Zeal Monachorum	32 16 2 NE	17012 E	148838 N
Spreyton		15 17 26 NE		
Cawsand Beacon	Downe St. Mary Steeple	38 2 3 NE	24900 E	151071 N
Great Haldon		38 1 27 NW		
High Hampton	Petrock Stowe	45 54 19 NE	50863 W	164687 N
Hatherleigh		42 43 31 NW		
Bradbury Castle	Belleview	7 48 48 NE	47773 W	205840 N
Beacon Moor		72 50 53 NW		
Belleview	Langtree Steeple	48 59 8 SW	71787 W	184956 N
Bradbury Castle		10 43 39 NW		
Belleview	Cotten Hill	34 26 10 NE	29860 W	231965 N
Beacon Moor		41 0 27 NW		
Belleview	Span Head	52 25 54 NE	18690 E	256963 N
Beacon Moor		9 5 58 NE		
Beacon Moor	Northmolton Ridge	26 13 22 NE	34556 E	243109 N
Span Head		48 52 17 SE		
Beacon Moor	Thelbridge Steeple	68 45 13 SE	38814 E	176628 N
Northmolton Ridge		3 39 47 SE		
Beacon Moor	Puddington Steeple	70 13 55 SE	54014 E	172078 N
Northmolton Ridge		15 19 5 SE		
Beacon Moor	Paracombe Station	0 9 37 NW	7508 E	278549 N
Span Head		27 23 26 NW		
Paracombe	Heanton Steeple	66 48 33 SW	56701 W	251042 N
Cotten Hill		54 35 47 NW		
Paracombe	Northam Steeple	58 45 44 SW	73682 W	229306 N
Span Head		73 19 57 SW		
Paracombe	Hangman Hill	66 34 43 SW	25350 W	292779 N
Cotten Hill		4 16 25 NE		
Cotten Hill	Harwood Steeple	75 24 10 SW	56042 W	225144 N
Belleview		23 11 50 NW		
Belleview	Parkham Steeple	87 31 10 SW	92701 W	203895 N
Harwood Steeple		59 54 10 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Cotten Hill - Harwood Steeple -	Atherington Steeple	9 5 50 SE 64 16 50 SE	26489 W	210910 N
Span Head - Northmolton Ridge	Mary Ansleigh Steeple	5 56 20 SE 17 28 20 SW	23715 E	208662 N
Span Head - Northmolton Ridge	Kingsnympton Spire	14 42 20 SW 35 25 20 SW	3651 E	199656 N
Span Head - Northmolton Ridge	Knowstone Steeple -	61 28 40 SE 69 6 50 SE	66889 E	230771 N
Span Head - Northmolton Ridge -	Castle, Castle Hill	35 14 40 SW 69 25 20 SW	360 W	230000 N
Span Head - Northmolton Ridge -	Chittlehampton Steeple	39 16 10 SW 62 59 10 SW	12020 W	219378 N
Span Head - Northmolton Ridge -	Saterleigh Gazebo -	21 40 30 SW 46 7 20 SW	36 W	209845 N
Span Head - Northmolton Ridge	Southmolton Steeple	8 17 50 SW 43 57 40 SW	13484 E	221258 N
Northmolton Ridge Southmolton Steeple	East Anstey Steeple	57 20 30 SE 86 22 40 NE	63689 E	224436 N
Beacon Moor - Northmolton Ridge	Warkleigh Steeple -	38 57 30 NW 53 26 10 SW	9693 W	210288 N
Beacon Moor - Northmolton Ridge	Witheridge -	83 33 20 SE 8 56 50 SE	43765 E	184635 N
Beacon Moor - Thelbridge Steeple -	Chawleigh Steeple -	29 26 30 SE 87 38 40 NW	14001 E	177648 N
Beacon Moor - Thelbridge Steeple	Chumleigh Steeple -	18 33 40 SW 80 15 40 NW	5619 E	182325 N
Beacon Moor - West Morchard -	Coldridge Steeple -	4 36 20 SE 89 45 10 NW	9987 E	161081 N

Meridian of St. Agnes Beacon.

St. Buryan Steeple - Sennen Steeple -	Levan Signal Staff -	44 46 12 SW 14 48 48 SE	108914 W	98140 S
St. Buryan Steeple - Sennen Steeple -	Pendennick Signal Staff	83 3 48 NW 45 29 48 SW	116220 W	81768 S
Levan Signal Staff - St. Buryan Steeple -	Titterdieu Signal Staff	75 41 12 NE 53 42 48 SE	84770 W	91980 S
Pertinney - Karnminnis -	Castle Dennis -	55 39 32 NE 12 0 8 SE	71566 W	52960 S
Pertinney - Karnminnis -	Tregonning Signal Staff	87 29 32 NE 55 41 38 SE	31705 W	69692 S
Pertinney - Castle Dennis -	St. Michael's Mount	85 5 32 NE 32 10 28 SE	61262 W	69337 S
Pertinney - Ludgvan Steeple -	St. Paul's Steeple	74 40 28 SE 31 53 32 SW	77254 W	79064 S
Karnminnis - Tregonning Signal Staff	Knill's Monument -	88 28 22 NE 45 53 38 NW	61931 W	40392 S

Names of Stations and	intersected Objects.	Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Karnminnis - Tregonning Signal Staff	Gwinear Steeple -	85 47 38 SE 9 13 38 NW	35955 W	43529 S
Karnminnis - Tregonning Signal Staff	St. Hilary Spire -	64 57 8 SE 38 51 38 NW	43504 W	55049 S
Karnbonellis - Tregonning Staff -	Park Loughs Signal Staff	6 55 10 SW 26 46 46 SE	10734 W	111239 S
Karnbonellis - St. Agnes Beacon -	St. Erme Steeple -	45 38 1 NE 88 44 22 SE	44658 E	983 N
St. Erme Steeple - Karnbonellis -	St. Michael Penkeville Steeple -	10 53 29 SE 67 54 31 NE	49499 E	24176 S
St. Erme Steeple - St. Michael Penkeville	Probus Steeple -	70 19 19 SE 33 56 31 NE	62206 E	5293 S
St. Erme Steeple - Probus Steeple -	Trevidown -	48 59 41 NE 11 2 41 NE	67269 E	20644 N
Park Loughs Signal Staff Tregonning Signal Staff	Cury Steeple -	14 31 44 NE 44 40 46 SE	6557 W	95119 S
Cury Steeple - Tregonning Signal Staff	Helston Down -	7 47 46 NW 64 36 46 SE	8533 W	80682 S
Helston Down - Tregonning Signal Staff	Helston Steeple -	39 46 46 NW 75 44 46 SE	13930 W	74200 S
Karnminnis - St. Agnes Beacon -	St. Ann's Summer House	61 20 58 NE 52 41 3 NE	150 E	115 N

Meridian of Dunnose.

Beacon Hill - Dean Hill - -	Salisbury Spire -	22 6 34 SW 68 52 6 NW	137645 W	163571 N
Beacon Hill - Dean Hill - -	Stockbridge Hill, New Station -	67 17 6 SE 55 36 4 NE	59732 W	181485 N
Stockbridge Hill - Dean Hill -	Farley Monument -	19 53 46 SE 78 53 17 NE	52333 W	161043 N
Farley Monument - Dean Hill -	Lyndhurst Steeple -	27 22 17 SW 16 22 13 SE	87582 W	92953 N
Farley Monument - Dean Hill -	Town Hill Telegraph	23 8 43 SE 61 41 23 SE	31004 E	11155 N
Farley Monument - Dean Hill -	Heathcote's Pillar -	39 28 37 SW 55 54 23 SE	76546 W	131753 N
Heathcotes Pillar - Dean Hill -	Toot Hill Telegraph	72 55 23 NE 61 40 23 SE	59741 W	126620 N
Heathcotes Pillar - Farley Monument -	White Flood Clump	80 40 37 NE 66 15 23 SE	11554 W	143106 N
Heathcotes Pillar - Dean Hill -	Ayres Summer House	67 4 43 NW 75 1 37 SW	114910 W	148020 N
Farley Monument - Dean Hill -	Nettle Heath Clump	22 42 53 SE 58 37 23 SE	28654 W	104486 E
Heathcote's Pillar - Dean Hill -	Eling Steeple -	25 13 3 SE 42 8 23 SE	64632 W	106647 N

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Heathcote's Pillar -	Ramsey Steeple -	59 31 57 NE	69724 W	135736 N
Eling Steeple -		9 55 53 SW		
Heathcote's Pillar -	Caddenham Station -	45 59 37 NE	63156 W	144600 N
Dean Hill -		81 30 23 SE		
Ayres Summer House	Branshaw Telegraph	10 8 23 SE	110125 W	121253 N
Heathcote's Pillar -		72 40 37 SW		
Farley Monument -	Ann's Hill Beacon -	79 18 23 SE	25848 W	156043 N
White Flood Clump -		47 51 23 NW		
Ann's Hill Beacon -	Longwood Barrow -	82 32 37 NE	13444 W	157668 N
White Flood Clump		7 24 23 NW		
Ann's Hill Beacon -	Winchester Cathedral	4 21 23 NW	26260 W	161449 N
Longwood Barrow -		73 33 23 NW		
Farley Monument -	Wickham Lodge Teleg	47 49 23 SE	9996 E	104573 N
Nettle Heath Clump		89 52 7 NE		
Farley Monument -	Winchester Hill -	69 40 53 SE	25340 E	132282 W
Wickham Lodge Teleg.		28 58 37 NE		
Winchester Hill -	Chalkdon Telegraph	58 26 23 SE	50008 E	117129 N
Wickham Lodge Teleg.		72 34 37 NE		
Winchester Hill -	Portsdown Telegraph	9 21 53 SE	33033 E	85649 N
Wickham Lodge Teleg.		50 35 53 SE		
Farley Monument -	Gander Down Summer House -	82 36 18 SE	6744 W	155127 N
White Flood Clump		21 47 27 NE		
Farley Monument -	Alresford Steeple -	79 34 2 NE	8620 E	172270 N
Gander Down Sum. Ho.		41 51 22 NE		
Chalkdon Telegraph	Stanstead Monument	41 48 23 SE	69493 E	95342 N
Wickham Lodge Teleg.		81 10 53 SE		
Chalkdon Telegraph	Beacon Hill Telegraph	76 10 37 NE	79947 E	124496 N
Stanstead Monument		19 43 37 NE		
Chalkdon Telegraph	Hemsworth Chapel	16 59 23 SE	60392 E	83149 N
Beacon Hill Telegraph		25 18 37 SW		
Winchester Hill -	Froxfield Mill -	48 0 37 NE	52783 E	156383 N
Beacon Hill Telegraph		39 53 53 NW		
Froxfield Mill -	Binstead Spire -	21 14 7 NE	68992 E	198693 N
Beacon Hill Telegraph		8 23 53 NW		
Banstead Spire -	East Worldham Steeple	37 10 7 SW	2037 E	189523 N
Beacon Hill Telegraph		15 23 53 NW		
East Worldham Steeple	Bramshot Spire -	59 52 53 SE	92136 E	172068 N
Beacon Hill Telegraph		14 22 7 NE		
East Worldham Steeple	Alton Spire -	65 38 53 NW	51116 E	194464 N
Banstead Spire -		76 41 7 SW		
Beacon Hill -	Andover Steeple -	80 28 2 NE	64069 W	216162 N
Highclere Beacon -		39 36 42 SW		
Beacon Hill -	Danesbury Camp -	67 42 58 SE	78224 W	189596 N
Highclere Beacon		35 11 2 SW		
Beacon Hill - -	Windmill Hill, Dummer	86 8 22 NE	13891 E	215800 N
Highclere Beacon -		51 18 38 SE		
Beacon Hill -	Popham Beacon -	88 32 2 NE	11374 W	209540 N
Highclere Beacon -		26 22 58 SE		
Popham Beacon -	Hannington Steeple	6 52 2 NE	6844 W	247122 N
Highclere Beacon -		76 23 8 SE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Popham Beacon - Highclere Beacon -	Crawley Clump -	47 47 2 SW 4 50 2 SW	39015 W	184458 N
Danesbury Camp - Highclere Beacon -	Lord Portsmouth's House -	49 8 2 NE 11 18 32 SW	39201 W	223359 N
Dean Hill - Highclere Beacon -	Walbury Camp -	20 56 31 NE 60 36 59 NW	59572 W	268360 N
Walbury Camp - Highclere Beacon -	Newbury Steeple -	60 35 1 NE 7 44 1 NE	28799 W	285712 N
Walbury Camp - Highclere Beacon -	Uphursthorne Mill -	5 58 1 SW 65 8 1 SW	62549 W	239880 N
Walbury Camp - Highclere Beacon -	Lord Carnarvon's Temple -	77 34 59 SE 4 49 59 NW	33954 W	262719 N
Danesbury Camp - Beacon Hill -	Windmill Hill, Luggershall -	29 25 58 NW 32 38 2 NE	102988 W	233483 N
Beacon Hill - Highclere Beacon -	Tidcombe Down -	36 48 2 NE 89 19 22 SW	85598 W	252876 N
Windmill Hill - Danesbury Camp -	Chute Steeple -	60 29 2 NE 7 44 58 NW	85540 W	243361 N
Windmill Hill - Beacon Hill -	Milk Hill -	46 40 58 NW 22 22 58 NW	148963 W	276835 N
Windmill Hill - Beacon Hill -	Red Horn Clump -	76 6 58 NW 45 34 58 NW	162342 W	248150 N
Windmill Hill - Red Horn Clump -	Lord Elbury's Monument -	6 20 58 NW 60 22 2 NE	108057 W	279031 N

Meridian of Greenwich.

Wendover - - Kensworth -	Stanmore -	63 15 17 SE 25 33 36 SE	78374 W	52629 N
Pen Steeple - Stanmore -	Windsor Castle -	16 48 5 SE 49 0 35 SW	137374 W	2846 N
Kensworth - Stanmore -	Berkhampstead Gazebo	66 49 36 SE 45 41 54 NE	28002 W	101794 N
Harrow Spire - Beaconsfield Steeple	Hillingdon Steeple -	63 5 32 SW 58 49 28 SE	104291 W	21213 N
Windsor Castle - Pen Steeple -	Beaconsfield -	9 25 5 NW 39 32 5 SE	144445 W	45484 N
Beaconsfield - Windsor Castle -	Cookham Dean -	55 17 55 SW 52 7 5 NW	169700 W	27996 N
Windsor Castle - Cookham Dean -	Bray Steeple -	67 7 5 NW 32 17 5 SE	159523 W	12194 N
Bray Steeple - Cookham Dean -	Farnham Steeple -	64 56 55 NE 77 49 5 SE	139611 W	21500 N
Bray Steeple - Cookham Dean -	Cookham Steeple -	2 57 5 NW 71 16 55 NE	160497 W	31114 N
Bray Steeple - Cookham Dean -	Mount Pleasant Gazebo	5 2 55 NE 60 54 55 NE	157528 W	34766 N

Names of Stations and intersected Objects.		Bearing	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Mount Pleasant -	Shottesbrook Spire	35 44 55 SW	179471 W	4265 N
Bray Steeple -		68 21 55 SW		
St. Peter's, St. Alban's	Watford Spire -	20 55 40 SW	89572 W	64776 N
Stanmore -		42 40 36 NW		
Cookham Dean -	Nettlebed Windmill	78 22 5 NW	224162 W	39208 N
Windsor Castle -		67 16 5 NW		
Nettlebed Windmill -	Ruscombe Steeple	39 28 45 SE	193554 W	2049 N
Windsor Castle -		89 11 1 SW		
Nettlebed Windmill -	Fawley Steeple -	82 55 45 SE	207380 W	37127 N
Ruscombe Steeple -		21 30 45 NW		
Nettlebed Windmill	Shiplake Steeple -	34 10 15 SE	203574 W	8878 N
Ruscombe Steeple -		55 43 15 NW		
Shiplake Steeple -	Henley Steeple -	4 29 15 NW	204 35 W	[illegible]3676 N
Ruscombe Steeple		27 20 15 NW		
Quainton - -	Brill Spire -	53 4 58 SW	237040 W	126390 N
Kensworth -		82 33 28 SW		
Quainton - -	Aylesbury Steeple -	40 23 34 SE	184119 W	125001 N
Kensworth - -		75 19 5 SW		
Wendover -	Long Crindon Windmill	77 22 18 NW	22608[illegible] W	112614 N
Kensworth -		74 36 42 SW		
Bow Brickhill -	Wing Steeple -	16 51 38 SW	162518 W	153853 N
Lilleyhoe -		77 23 39 SW		
Bow Brickhill -	Wingrave Steeple -	17 23 35 SW	166752 W	141526 N
Lilleyhoe -		70 7 27 SW		
Long Crindon Windmill	Whitchurch Steeple	46 58 31 NE	188146 W	148205 N
Aylesbury Steeple -		9 55 29 NW		
Long Crindon Windmill	Lousley Row Windmill	53 16 29 SE	184802 W	81818 N
Aylesbury Steeple -		0 54 31 SW		
Long Crindon Windmill	Hadwell Barrow -	4 54 21 SE	223051 W	77280 N
Aylesbury Steeple		39 12 31 SW		
Hadwell Barrow -	Tame Steeple -	2 17 39 NE	222094 W	101182 N
Long Crindon Windmill		19 14 21 SE		
Quainton - -	Cobham's Pillar -	21 50 50 NW	227343 W	204635 N
Bow Brickhill -		79 27 3 NW		
Quainton -	Winslow Steeple -	18 12 20 NE	198641 W	170881 N
Cobham's Pillar -		40 22 25 SE		
Winslow Steeple -	Buckingham Spire -	49 24 25 NW	222564 W	191383 N
Cobham's Pillar -		19 49 25 SE		
Winslow Steeple -	Harwood Mill -	13 21 35 NE	195026 W	186108 N
Buckingham Spire -		79 9 25 SE		
Berkhampstead Gazebo	St. Peter's, St. Albans	89 40 44 SW	75525 W	101527 N
Stanmore -		3 20 4 NE		
Watford Spire -	Rickmansworth Spire	68 45 54 SW	106020 W	58364 N
Stanmore -		78 14 36 NW		
Orwell -	Hardwick Spire -	14 22 22 NE	2401 W	269291 N
Balsham Station -		73 7 8 NW		
Orwell - -	Orwell Pole -	52 43 22 SE	66 E	245224 N
Royston -		16 16 38 NE		
Orwell Pole -	Royston Steeple -	6 44 38 SW	4308 W	208233 N
Royston -		65 35 38 NE		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Orwell Pole -	Croydon Steeple -	71 7 38 SW	17828 W	239107 N
Royston - -		10 7 22 NW		
Newmarket -	Streatham Spire -	53 15 20 SW	51548 E	322680 N
Ely Minster -		28 28 20 SW		
Newmarket -	Gog Magog Telegraph	60 4 40 SW	43403 E	251493 N
Ely Minster -		11 34 40 SW		
Newmarket -	Swaffham Steeple -	89 17 20 SW	69839 E	285539 N
Streatham Spire -		26 12 20 SE		
Streatham Spire -	Chatteris Steeple -	44 2 40 NW	12576 E	362969 N
Ely Minster -		66 43 40 NW		
Streatham Spire -	Sutton Steeple -	53 54 40 NW	30269 E	338192 N
Ely Minster -		83 34 20 SW		
Streatham Spire -	St. Ive's Steeple -	83 4 20 SW	17794 W	314256 N
Cottenham Steeple -		76 57 40 NW		
Chatteris Steeple -	March Spire -	14 18 20 NE	20490 E	394005 N
Ely Minster -		38 23 40 NW		
Sutton Steeple	Somersham Steeple -	84 32 10 NW	9 W	335296 N
Chatteris Steeple -		24 27 10 SW		
Sutton Steeple -	Warboys Spire -	84 52 40 SW	19353 W	342640 N
Chatteris Steeple -		57 31 50 SW		
Sutton Steeple -	Littleport Steeple -	57 33 20 NE	71278 E	364263 N
Ely Minster -		22 38 20 NE		
Warboys Spire -	Ramsey Steeple -	11 12 10 NE	22944 W	360768 N
Chatteris Steeple -		86 28 50 SW		
Ely Minster -	Wisbich Steeple -	13 18 40 NW	38032 E	442604 N
Chatteris Steeple -		17 43 50 NE		
Ely Minster -	Thorney Abbey -	45 35 40 NW	24052 W	425935 N
Wisbich Steeple -		74 58 20 SW		
Ely Minster -	Crowland Abbey -	43 15 40 NW	37335 W	447195 N
Wisbich Steeple -		86 30 40 NW		
Ely Minster -	Lynn Old Tower	12 56 20 NE	92769 E	476160 N
Wisbich Steeple -		58 29 20 NE		
Ely Minster -	Peterborough Cathedral	60 48 40 NW	54838 W	407859 N
Wisbich Steeple -		69 29 20 SW		
Ely Minster -	Downham Steeple -	19 1 20 NE	88774 E	419730 N
March Spire -		69 21 20 NE		
Peterborough -	Whittlesea Spire -	75 48 30 SE	28870 W	401292 N
Wisbich Steeple -		58 18 20 SW		
St. Ives Spire -	King's Bush -	58 34 20 SW	33199 W	303620 N
Cottenham Steeple		89 18 40 NW		
King's Bush -	Huntingdon Steeple	27 52 40 NW	41319 W	315189 N
St. Ives Steeple -		87 43 40 NW		
King's Bush -	Yelling Spire -	0 49 40 SE	34907 W	283608 N
Cottenham Steeple		[illegible] 53 20 SW		
Lilleyhoe -	Biggleswade Spire -	[illegible] 28 19 NE	59875 W	222454 N
Royston -		[illegible] 56 38 NW		
Biggleswade Spire -	Clay Hill Bush -	52 8 40 SE	33765 W	202160 N
Royston -		82 59 20 SW		
Clay Hill Bush -	Henlow Steeple -	87 41 40 NW	63668 W	203364 N
Biggleswade Spire		11 14 20 SW		

Names of Stations and intersected Objects.		Bearings.	Distance from Meridian.	Distance from Perpendicular.
		° ′ ″	Feet.	Feet.
Henlow Steeple - Clay Hill Bush -	Baldock Telegraph -	48 15 40 SE 17 4 20 SW	39906 W	182164 N
Biggleswade Spire - Henlow Steeple -	North Hill Steeple -	61 56 40 NW 18 56 40 NW	72537 W	229203 N
Biggleswade Spire North Hill Steeple	Blunham Steeple -	26 39 40 NW 6 49 20 NE	70752 W	244119 N
St. Ann's Hill - Hanger Hill Tower -	Banstead Spire -	69 15 10 SE 16 46 0 SE	45582 W	56816 S
St. Ann's Hill - Banstead Spire -	St. Ann's Clump -	74 32 50 SW 69 27 20 NW	119860 W	28979 S
St. Ann's Clump - Banstead Spire -	Pain's Hill Spire -	35 25 20 SE 88 23 20 NW	101174 W	55253 S
St. Ann's Clump - Pain's Hill Spire -	Woking Monument -	3 57 40 SW 73 27 0 SW	122110 W	61475 S
St. Ann's Clump - Pain's Hill Spire -	Guildford Steeple -	9 53 40 SW 41 8 40 SW	130248 W	88530 S

ART. V. *An Alphabetical List of the Latitudes and Longitudes of the principal Stations, together with several Church Steeples, Lighthouses, and other remarkable Objects.*

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
Abergele Steeple -	53	17	10	3	34	13	W
Abbotsbury Signal Staff	50	40	30	2	36	54	W
ABERYSTWITH STATION -	52	25	49	4	3	19	W
Air Point, Lighthouse	53	21	28	3	18	35	W
Alban's, St. (St. Peter's Steeple) -	50	45	19	0	19	31	W
ALNWICK MOOR -	55	25	12	1	45	35	W
Alresford Steeple - -	51	5	27	1	9	21	W
Alton Spire -	51	9	5	0	58	17	W
Amlwch Steeple -	53	23	0	4	19	17	W
Andover Steeple -	51	12	39	1	28	19	W
Annan Spire -	54	59	23	3	14	45	W
ANN'S, ST. HILL, *Pem.*	51	41	39	5	8	53	W
Ann's St. Summer House	50	18	28	5	11	53	W
Ann's St. Lighthouse	51	40	59	5	9	19	W
Anstey, East Steeple	51	1	38	3	36	15	W
Anstey, West Steeple	51	2	51	3	36	44	W
Anstruther, West, Spire	56	13	33	2	41	37	W
Anstruther, East, Spire	56	13	40	2	41	24	W
ARRAN FOWWDDY	52	47	15	3	40	27	W
ARRENNIO -	52	55	3	3	43	55	W
Asaph, St. Cathedral	53	15	28	3	25	44	W
ASHLEY HEATH -	52	55	10	2	22	13	W
shurst Beacon -	53	33	59	2	44	40	W
Ashwater -	50	44	5	4	16	20	W
Ashwell Spire -	52	2	32	0	9	23	W
Aspley Steeple -	52	0	59	0	37	29	W
Atherington Steeple -	50	59	26	3	59	40	W
Aughton Spire -	53	32	34	2	54	31	W
AXEDGE -	53	14	0	1	56	27	W
Axholme Steeple -	53	29	27	0	50	40	W
Aylesbury Steeple -	51	49	3	0	48	41	W
Ayre's Summer House	51	1	24	1	41	27	W
BAGBOROUGH -	51	6	36	3	10	54	W
Baldock Telegraph -	51	58	36	0	10	35	W
BALSHAM NEW STATION - -	52	9	27	0	18	56	E

Names of Stations and Objects.	Latitude. °	′	″	Longitude from Greenwich. °	′	″	
Balsham Steeple -	52	8	13	0	20	3	E
Bambrough Castle Flag staff -	55	36	42	1	42	8	W
Banstead Spire -	51	19	19	0	11	55	W
Bar Beacon -	52	34	23	1	54	12	W
Bardon Hill -	52	42	56	1	18	52	W
Barkston Spire -	52	54	26	0	50	24	W
Barnaby Moor -	54	33	31	1	6	58	W
Bas Rock, highest point	56	4	53	2	37	47	W
Base on Misterton Carr							
North End of -	53	31	50	0	54	3	W
South End of -	53	27	34	0	55	11	W
Base on Rhuddlan Marsh							
East End of -	53	17	14	3	27	33	W
West End of -	53	17	44	3	34	12	W
Bassingbourn Steeple -	52	4	49	0	3	31	W
Beacon Hill Telegraph	0	57	34	0	50	51	W
Beacons of Brecknock	51	53	4	3	25	26	W
Beaconsfield Spire -	51	36	3	0	38	0	W
Beadnell Spire -	55	33	33	1	37	44	W
Bebbington Spire -	53	20	55	2	59	32	W
Beckford Steeple -	52	1	17	2	1	41	W
Beer Signal Staff -	50	41	19	3	5	42	W
Bees, St. Head, Light-house -	54	30	55	3	37	24	W
Bellchalwell Telegraph	50	52	32	2	16	36	W
Belle Field Hill	53	21	16	2	34	16	W
Belleview -	0	58	37	4	5	12	W
Belton Steeple -	53	32	56	0	48	56	W
Belton Spire -		46	2	1	19	38	W
Bennington Steeple -	53	33	15	2	11		W
Berrow Steeple -	51	16	3	3	0		W
Berule (North) -	54	18	5	4	22	43	W
Berwick upon Tweed Spire -	55	46	21	1	59	41	W
Beryl Hill -	53	50	26	3	1	49	W
Bettws Einon Church	52	6	6	4	27	48	W
Bidston Lighthouse -	53	24	6	3	3	46	W
Bigbury Spire -	50	18	19	3	51	29	W
Biggleswade Spire -	52	5	12	0	15	55	W
Billinge Beacon	53	30	29	2	42	22	W
Bingham Spire -	52	57	12	0	56	38	W
Binstead Spire -	51	9	46	0	53	37	W
Bispham Steeple -	53	51	29	3	1	32	W
Bishop and Clerks, Northmost Island	51	54	10	5	21	58	W
Bishop Wilton Spire -	53	59	16		47	6	W
Bishop's Lydiard -	51	3	43	3	10	37	W
Black Auton -	50	20	49	3	40	4	W
Black Comb -	54	15	33	3	16	8	W
Black Hambleton Down -	54	18	29	1	14	35	W
Blackadder Tower -	55	46	35		13	27	W
Blackheddon -	55	38	30		55	15	W
Blackrod Steeple -	53	35	44		34	33	W
Blagdon -	51	18	45		43	48	W
Blandford Telegraph	50	53	1		6	8	W
Bleasdale Forest	53	55	2		3	22	W
Bluhbam Steeple -	52	8	46		18	50	W
Boldon, West, Spire -	54	56	44		26	46	W
Boothby Steeple -	53	7	7		31	24	W
Bottesford -	52	56	57		47	19	W
Bottesford Spire -	52	56	40		47	45	W
Bottisham Steeple -	52	13	42	0	16	29	E
Botton Head -	54	24	28	1	4	87	W
Boulsworth Hill -	53	49	5	2	5	58	W
Bow Fell -	54	26	59		9	15	W
Bradbury Castle -	50	44	31		8	10	W
Bradfield Point -	53	26	35		35	38	W
Bradninch Steeple -	50	49	44		24	35	W
Bramshot Spire -	51	5	23	0	47	37	W
Brandon Warren	52	25	16	0	38	55	E
Brandon Down -	54	45			40	13	W
Branshaw Telegraph	50	56			40	10	W
Branston Spire -	52	17			12	31	W
Bratton Clovelly -	0	42			9	41	W
Bray Steeple -	51	30			41	53	W
Brayton Spire -	53	46			4	44	W
Brechva Mountain -	51	56			8	40	W
Breedon on the Hill Steeple -	52	48	25	1	2	7	W
Breedon Spire -	52	1	52	2	6	34	W
Brenin Vawr -	51	59	1	4	36	0	W
Brent Knoll -	51	15	16	2	56	6	W
Bridgend Steeple -	51	30	30	3	34	9	W
Bridgerule Steeple -	50	48	10	4	25	30	W
Brill Spire -	51	49	10			46	W
Brogborough -	2	2	12		35	33	W
Brompton Ralph	1	5	48		18	56	W
Brompton Regis Steeple	1	4	26		29	7	W
Brown Clee Hill -	2	28	37	2	35	22	W
Brusselton Folly -	4	37	17	1	40	40	W
Buckingham Spire -	1	59	53	0	59	5	W
Buckland Tout Saints	0	18	8	3	43	59	W
Buckland Steeple -	1	15	38	2	20	37	W
Buckland Steeple -	0	58	42	3	10	2	W
Budeaux, St. Steeple -	0	24	49	4	9	42	W
Budleigh Steeple -	0	49	40	3	54	10	W
Burnham Steeple -		14	25	2	59	13	W
Burrow Hill -		15	15	1	8	7	W
Burrow Mount Chapel		4	16	2	54	20	W
Bwlch Mawr -		0	19	4	19	46	W
Cader Idris -	52	42		4	28	3	W

Names of Stations and Objects.	Latitude. °	′	″	Longitude from Greenwich. °	′	″	
Caldy Island, Woolhouse	51	37	56	4	39	58	W
CALF (THE)	54	22	11		30	13	W
Cambridge, *Trinity Spire*	52	12	45		7	42	E
Trinity College Chapel	52	12	49		7	27	E
Great St. Mary's Steeple	52	12	43		7	34	E
Cannington	51	9	32		4	4	W
CAPEL KYNON	52	7	10	4	21	38	W
CAPELLANTE	51	51	47	3	29	3	W
Cardigan Island, highest Point	52	7	53	4	40	27	W
Cardigan Steeple	52	4	59	4	38	18	W
Carlaveroc Castle	54	58	41	3	30	41	W
Carmarthen, House at West end		51	10	4	18	48	W
Carn Vawr		37	24	3	30	6	W
Carnarvon's, Lord, Temple	51	20	19	1	20	29	W
Carreg Gilwydd	51	50	44	3	48	52	W
Carrock Fell	54	41	4	3	0	40	W
Castle Baith Steeple	51	55	28		51	38	W
Castle Dennis	50	9	13		30	11	W
Castle Ring	52	42			55	46	W
Castlinroach	50	57	47		1	40	W
Cave Hill, Signal Staff	53	16	57		36	47	W
Caythorpe Spire	53	1	38	0	35	51	W
CEFN BRYN	51	34	50	4	56	19	W
Chalbury Telegraph	50	51	45	1	58	8	W
Chalkdon Telegraph	50	56	23	0	58	38	W
Charleton Steeple	50	1	16	3	44	31	W
Chatteris Steeple	52	28	19		3	22	E
Chawleigh Steeple	50	53	58	3	49	0	W
Cheltenham Steeple	51	54	7		4	[illegible]	W
Chester, Trinity Spire	53		26	2	53	[illegible]	W
Chester-le-Street Spire	54		28	1	33	49	W
CHEVIOT (THE)	5			2	8	12	W
Chishall Steeple	52		46	0	4	40	E
Chittlehampton Steeple	51	0	49	3	55	55	W
Christcross	50	50	18	3	27	39	W
Chumleigh Steeple	50	54	44	3	51	70	W
Church Down Steeple	51	52	13	2	9	49	W
Church Stowe Steeple	50	17	59	2	27	19	W
Chute Steeple	51	17	16	1	33	57	W
CLEEVE	51	55	11	1	59	47	W
Cleeve Steeple	51	56	54			0	W
Cobham's Pillar	52	2	3			24	W
Coedana Church	53	18	46	4	20	4	W
Cold Ashby Steeple	52	23	34	1	1	24	W
Cold Fell Pike	54	53	45	2	36	21	W
Cold Overton Steeple	52	41		0	47	55	W
Coldridg Steeple	50	51	14	3	50	12	W
Coleby Spire	53	8	4	0	32	25	W
COLLIER LAW	54	46	2	1	58	2	W
Columpton Steeple	50	51	24	3	22	43	W
Combe Florey Steeple	51	4	19	3	12	12	W
Combe Rawleigh	50	49	22	3	12	13	W
Coniston Fell	54	22	20	3	6	34	W
Cookham Steeple	51	33	3	0	42	12	W
Coquet Island, Lighthouse	55	20	11	3	11	47	W
Cothelestone Lodge	51	5	18		[illegible]	47	W
Coton Spire	52	13	1		3	59	E
COTTEN HILL	51		54		0	35	W
Cottenham Spire	52	18	25		8	27	E
CRADLE MOUNTAIN	51	57	7	[illegible]	6	39	W
Crail Spire		5	58	2	36	55	W
Crail, High Building near		16	59	2	35	49	W
Cranborne Steeple		55	9	1	55	0	W
Crewkerne Steeple		53	7	2	47	17	W
CRIF-FELL		56	44	3	36	55	W
ROPWELL BISHOP		54	17	1	0	9	W
Crosby Steeple		29	33	3	0	55	W
CROSS FELL		42	18	2	28	37	W
Crowland Abbey		42		0	10	4	W
CROWLE BEACON		36	36	0	49	4	W
Crowle Steeple		36	30	0	49	49	W
Croydon Steeple		7	57	0	4	45	W
Crunwell Steeple		44	25			36	W
Culmstock	50	55	45		15	20	W
Curry Mallet Steeple	50	59			56	23	W
Curry [illegible] Steeple	50	2	49		13	36	W
Cutcombe Steeple	51	8	35	3	31	9	W
CYRN Y BRAIN MOUNTAIN	53	2	20		9	44	W
Daffenside Beacon	54	49	27		30	47	W
Daniel's St. Spire	51	40			54	1	W
Daventry Spire	52	15	39		9	3	W
David's, St., Cathedral	51	52	56		14	53	W
Decuman's, St., Steeple	51	10	36		19	36	W
Denbury	50	30	18		19	0	W
DENT HILL	54	30	19		28	28	W
Derby Steeple	52	55	32		28	16	W
Devize's, St. John's Steeple	51	21	15	1	59	6	W
Doddington Spire	53	0	40	0	43	50	W
Downe, St. Mary, Steeple	50	49	36	3	46	21	W
Downham Steeple	52	37	36	0	23	54	E
Drax Spire	53	43	49	0	58	17	W
Dulau Signal Staff	55	55	5	2	13	12	W
Dulverton Steeple	51	2	1	3	32	55	W
Dumpdon	50	49	49	3	9	35	W
Dunchurch Steeple	52	20	16	1	16	56	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
DUNKERY BEACON	51	9	48	3	34		W
DUNRIGS (THE) -	55	34	30	3	10		W
Dunse Spire -	55	46	50	2	19		W
Dunstanbrough Castle	55	29	36	1	35		W
Durham Cathedral -	54	46	31	1	34		W
Earl's Mount Obelisk	55	25	44	1	44		W
EASINGTON HEIGHTS	54	33	59	0	50		W
Easington Steeple -	54	47	9	1	21		W
Eastham Spire -	53	18	50	2	57		W
East Worldham Steeple	51	8		1	11		W
Elbury's, Lord, Monument - -	51	22	56	1	39	54	W
Elden Hills, highest point - -	55	35	6	2	42	27	W
Elianus Point Signal Staff - -	53	25		4	16	20	W
Eling Steeple -	50	54		1	28	21	W
Elmo, St. Summer House	53	19		3	21	46	W
ELY MINSTER -	52	24		0	16	35	E
Embleton Steeple -	55	29		1	37	42	W
Enmore Steeple -	51	6		3	4	34	W
Epworth Steeple -	53	23		0	48	58	W
Eversden (Great) Steeple	52	8		0	0	20	E
Everton Flagstaff -	53	25		2	57	34	W
Exeter Cathedral	50	43		3	31	0	W
Farley Monument		3		1	25	12	W
Farnham Steeple		32		0	36	41	W
Fawley Steeple		34		0	54	32	W
Ferwig Steeple		6		4	38	1	W
Fivehead Steeple		0	1	2	54		W
FLATHOLMES LIGHT-HOUSE - -	51	22	33	3	6	25	
Fonthill Abbey -	51	4	43	2	6	34	
Formby Point							
North W. Landmark	53	32	34	3	5	2	
South E. Landmark	53	32	23	3	3	18	
Foston Spire	53	56	53	0	40	21	
Gaddon Hill -	0	53	30	3	21	46	
Gander Down Summer House -	50	52	38	1	13	21	
GARREG MOUNTAIN	53	17	41	3	17	19	
GARTH HILL -	51	32	35	3	16	55	
Gernsey's Gazebo -	50	52	41	3	16	3	
Gillingham Steeple -	51	2	20	2	16	8	
Glastonbury Tor -	51	8	43	2	41	19	
Glocester Cathedral -	51	52	3	2	14	15	W
GO HILL - -	53	33	51	2	53	55	W
Gog Magog Telegraph	52	9	59	0	11	34	E
Goldington Steeple -	52	1	16	0	36	58	W
Granby Steeple -	52	55	8	0	52	47	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
Granchester Steeple -	52	11		0	6	9	E
Grasholm Island -	51	43		5	47	1	W
Great Gavel -	54	29		3	12	30	W
Gringley on the Hill Steeple -	53	24		0	48	21	W
GRINGLEY BEACON	53	24		0	52	53	W
Grisdale Pike -	54	35		3	14	57	W
Guildford Steeple -	51	14		0	34	0	W
Guilesborough Spire -	52	20		1	0	14	W
GWAUNYSGAER DOWN	53	19		3	23	1	W
Gwynier Steeple -	50	11		5	21	6	W
Halbchester Hill, Signal Staff -	55	49		2	4	54	W
Haddenham Spire	52	22	20	0	9	26	E
HADDON BEACON -	51	2	53	3	28	13	W
Haddon, West Steeple	52	20	30	1	4	16	W
Haldon Obelisk -	50	37	3	3	30	27	W
Halsall Spire	53	35	11	2	56	24	W
HAMBLETON DOWN	54	14	51	1	12	39	W
HANGMAN HILL -	51	12	54	3	59	23	W
Hannington Steeple	51	17	45	1	13	23	W
Hardwick Spire -	52	12	55	0	0	6	W
Hara stone Steeple -	53	8	59	0	32	37	W
Harner Hill -	50	48	47	3	3	11	W
HARTLAND POINT	51	1	22	4	30	26	W
Hartlepool Steeple -	54	41	49	1	10	31	W
Harwood Steeple -	51	1	45	4	7	21	W
Hatfield Spire	53		47	1	5	27	W
HATHERSAGE	53		21	1	35	8	W
Haverfordwest Spire	51	48	12	4	57	11	W
Hawk Church -	50	48	1	2	55	22	W
HAWKESTONE OBELISK -	52	51	34	2	36	59	W
Headon Steeple -	2	2	22	0	5	39	E
Heanton Steeple -	1	6	0	4	7	33	W
Heathcote's Pillar -	50	58	46	1	31	28	W
Hedgehope -	55	28	28	2	4	54	W
Helbre Lighthouse -	53	23	34	3	10	13	W
HELKINTON -	52	23	14	1	3	33	W
Helston Steeple -	50	6	15	5	15	29	W
HELVELLIN MOUNTAIN -	54	31	43	3	0	21	W
Hembury Fort -	50	49	12	3	14	58	W
HEMINGBROUGH SPIRE -	53	46		0	58	26	W
Hemsworth Chapel -	50	50		0	55	58	W
Henley Steeple -	51	32		0	53	48	W
Henlow Steeple -	52	2		0	16	53	W
Henstridge Steeple -	50	58		2	23	13	W
HESWELL HILL -	53	20		3	5	24	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
HIGH PIKE -	54	42	27	3	2	49	
HIGHGATE MOUNTAIN -	51	39	41	4	55	12	W
High Howland Steeple	53	35	32	1	34	45	W
High Hampton Steeple	50	49	19	4	7	52	W
Hilary, St. Steeple -	51	26	59	3	24	16	W
Hilary, St. Steeple, *Cornwall* -	50	9	23	5	23	2	W
HILL FARM -	51	57	56	0	37	13	W
Hill Farence -	51	1	2	2	36	50	W
Hillingdon Steeple -	51	32	6	0	27	24	W
Hinton Steeple, *Som.*	51	19	26	2	18	47	W
Hinton Steeple, *Dorset.*	50	56	40		17	46	W
Holcombe Rogus -	50	57	48		19	57	W
HOLLAND HILL -	53	1	56		6	27	W
HOLME MOSS -	3	32	23		52	32	W
Holsworthy Steeple -		48	41	4	20	13	W
HOLYHEAD MOUNTAIN -	53	18	51	4	39	27	W
Holy Island Castle Flagstaff -	55	40	20	1	46	38	W
Home Steeple -	3	54	38	0	32	15	W
Honiton Chapel -	50	48	3	3	10	36	W
HORSEMOOR HILL -	51	59	42	0	38	2	W
Howden Steeple -	53	44	46	1	12	26	W
Hubberston Steeple -	51	42	56	5	21	47	W
Hume Castle -	55	40	5	2	27	38	W
HUNSLEY BEACON -	53	47	59	0	34	20	W
Huntingdon Steeple	52	20	27	0	11	3	W
Huntspill Steeple -	51	12	19	2	59	8	W
Ilchester Steeple	51	0	23	2	40	14	W
Ilton Steeple -	50	57	11	2	54	48	W
INGLEBOROUGH HILL	54	10	4	2	23	18	W
Ives, St. Steeple -	52	20	19	0	4	45	W
Iwerne Minster -	50	55	49	2	10	49	W
Johnston Steeple -	51	45	17	4	58	41	W
Kelshall Steeple -	52	0	29	0	3	51	W
Kenfig Steeple -	51	31	26	3	42	26	W
Kentisbeare -	50	52	33	3	16	26	W
Kidwelly Spire -	51	44	15	4	17	22	W
Kilhope Law -	54	48	0	2	16	17	W
Kilkhampton Steeple	50	52	32	4	28	10	W
Kilrenny Spire -	56	14	17	2	40	35	W
Kilvey Windmill -	51	37	47	3	54	12	W
Kilvington Steeple -	52	52	28	0	51	46	W
Kilworth, South Steeple	52	28	44	1	9	23	W
Kilworth, North Steeple	52	26	39	1	5	23	W
Kingsettles -	51	1	47	2	11	0	W
Kingsnympton Spire	50	57	35	3	51	51	W
Kingston Steeple -	50	18	54	3	51	40	W
Kirby Spire -	53	5	55	1	15	48	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
Kirkby Lonsdale Steeple	54	12	1	2	35	15	W
Knill's Monument -	50	11	4	5	27	44	W
Knoll Hill -	53	38	5	2	13	53	W
Knowstone Steeple -	51	2	40	3	35	24	W
Kritch Spire -	53	15	4	1	7	10	W
Kyloe Steeple -	55	39	36	1	54	39	W
Lancaster Steeple -	54	3		2	47	41	W
Langar Steeple -	52	55		0	51	27	W
Langford Budville -	51	0	46	3	12	11	W
Langtree Steeple -	50	55		4	11	24	W
LANNON -	51	45		4	8	9	W
Lannon Steeple -	51	45	2	4	6	3	W
Lansdown Monument	1	25	29	2	22	22	W
LARGO LAW -	56	14	15	2	54	52	W
Laugharne Steeple -	1	46	34	4	26	43	W
Leadenham Spire -	3	3	20	0	34	47	W
Leasowes Lighthouse	3	24	50	3	6	49	W
Ledbury Steeple -	52	2	16	2	24	38	W
LEDSTONE BEACON	3	46	31	1	18	47	W
Leigh Steeple -	1	13	28	2	25	58	W
Levan Signal Staff -	0	2	16	5	39	39	W
LINCOLN MINSTER	3	14	7	0	32	1	W
Litchfield Spire -	2	41	12	1	49	21	W
LITTLEPORT -	52	27	59	0	18	40	E
Littleport Steeple -	52	28	30	0	19	7	E
Little Brickhill Steeple	51	58	59	0	40	21	W
Liverpool, *St. Paul's*	3	24	40	2	58	55	W
Llaeithty Rock -	1	54	16	5	16	9	W
Llaleston Steeple -	1	30	23	3	36	29	W
Llandilo Steeple -	1	52	55	3	58	37	W
LLANDINAM MOUNTAIN -	2	25	15	3	25	26	W
Llandovery, St. Mary on the Hill -				3	44	22	W
LLANELIAN MOUNTAIN, *Denb.* -	3	15	23	3	43	2	W
LLANELIAN MOUNTAIN, *Ang.* -	3	24	4	4	16	55	W
Llanelian Spire -	3	24	42	4	17	13	W
Llanelly Steeple -	1	41		4	8	41	W
Llandonna Signal Staff	3	18	43	4	6	31	W
Llangadock Steeple -	1	56	23	3	52	11	W
LLANGEINOR MOUNTAIN - -		38	28	3	33	33	W
Llangynog Mountain		49	2	4	23	26	W
Llansaint Hill -		45	26	4	17	41	W
Llanstephan Castle -		45	57	4	22	25	W
Llantrissant Steeple -		32	32	3	21	50	W
Llanvihangel Penbedw Steeple - -	2	1	29	4	35	40	W
Llanwenog Steeple	2	5	16	4	11	0	W

Names of Stations and Objects.	Latitude. ° ′ ″	Longitude from Greenwich. ° ′ ″
Llwydiart Mountain	53 17 10	4 10 26 W
Lomond Top, *East*	56 14 44	3 12 33 W
Lomond Top, *West*	56 14 57	3 17 4 W
Long Bennington Steeple	52 59 12	0 44 27 W
Long Mount Pole	52 32 42	2 51 10 W
Long Mountain	52 38 44	3 4 35 W
Loosehoe Moor	54 24 11	0 54 54 W
Lord's Seat	53 20 57	1 49 28 W
Loughborough Steeple	52 46 31	1 11 54 W
Loughton Spire	53 23 21	1 13 7 W
Lowick Steeple	55 39 12	1 58 28 W
Ludchurch Steeple	51 45 57	4 40 36 W
Lulworth Flagstaff	50 39 19	2 18 28 W
Lumsdane Hill	55 54 38	2 11 50 W
Lundy Isle, St. Ann's Chapel	51 9 47	4 38 28 W
Lutterworth Steeple	52 27 20	1 12 1 W
Lyndhurst Steeple	50 52 23	1 34 19 W
Lynn Old Tower	52 46 52	0 25 4 E
Maddingly	52 13 21	0 3 46 E
Maenclochog Steeple	51 54 45	4 46 11 W
Malvern Hill	52 6 18	2 19 47 W
Mancha Hill	51 47 50	4 11 9 W
Manchester, *St. Mary's Spire*	53 29 0	2 14 22 W
March Spire	52 33 25	0 5 30 E
Margam Down	51 35 11	3 41 28 W
Mark Steeple	51 13 37	2 52 39 W
Marros Steeple	51 45 4	4 34 50 W
Marros Beacon	51 44 33	4 35 6 W
Marston Hill, Windmill	54 57 50	1 23 10 W
Marston Mortyne Steeple	52 1 37	0 36 46 W
Mary Ansleigh Steeple	50 59 3	3 46 38 W
Mary St Hill, Steeple	51 30 11	3 29 23 W
May Hill	51 53 20	2 26 1 W
May, Isle of, *Lighthouse*	56 11 22	2 32 47 W
Melbourne Steeple	52 5 10	0 1 11 E
Meldreth Steeple	52 4 50	0 0 50 E
Melksham Steeple	51 22 22	2 7 58 W
Merrington Steeple	54 40 45	1 35 13 W
Michael's St. Mount	50 7 2	5 27 33 W
Michael's St. Penkeville Steeple	50 14 28	4 59 17 W
Mildenhall Steeple	52 21 19	0 31 56 E
Milford Steeple	51 42 43	5 20 13 W
Milford, Lord's, Summer House	51 47 9	4 51 30 W
Milton Bryant Steeple	51 58 1	0 35 5 W
Minehead Steeple	51 12 42	3 28 4 W
Missin Steeple	53 26 49	0 56 19 W
Misterton Steeple	52 27 40	1 11 27 W
Modbury Spire	50 20 56	3 52 36 W
Moel Fammau	53 9 19	3 14 37 W
Moelfre Issa	53 14 52	3 33 35 W
Monance, St. Spire	56 12 24	2 45 37 W
Montacute's Signal Staff	50 57 2	2 42 44 W
Mordington Hill	55 48 39	2 3 45 W
Morebath Steeple	51 0 57	2 38 1 W
Mote Steeple	51 53 33	4 47 55 W
Mount Pleasant Gazebo	51 34 16	0 41 25 W
Mow Copt	53 6 56	2 12 15 W
Mumbles Lighthouse	51 34 0	3 57 20 W
Mynydd Mane	51 40 27	3 3 36 W
Naseby Field	52 24 21	0 58 28 W
Naseby Steeple	52 23 52	0 59 3 W
Nelson's Tower	51 51 8	4 6 13 W
Neston Steeple	53 17 24	3 3 10 W
Nether Broughton Steeple	52 49 48	0 57 49 W
Newark Steeple	53 4 30	0 49 18 W
Newbiggin Spire	55 11 14	1 29 42 W
Newbury Steeple	51 24 5	1 19 9 W
New Inn Hill	51 58 47	4 11 58 W
Newmarket	52 15 28	0 27 12 E
Newton Down	51 44 7	4 53 53 W
Newton Down Signal Staff	51 39 35	3 39 21 W
Newton, St Cyrus Steeple	50 46 18	3 34 40 W
Newton Summer House	50 56 14	2 36 50 W
Newts Down	50 53 31	3 26 58 W
Nine Standards	54 27 21	2 15 57 W
Nipple Rock	51 43 16	4 52 50 W
Norham Castle	51 43 29	2 8 30 W
Northam Steeple	51 2 26	4 11 57 W
North Berwick Law, Staff	56 3 8	2 42 11 W
North-Hill Steeple	52 6 18	0 19 18 W
North Meals Spire	53 39 41	2 57 3 W
North Molton Ridge	51 4 44	3 43 47 W
North Petherton Steeple	51 5 34	3 0 14 W
North Tawton Steeple	50 48 0	3 52 58 W
Northy	52 22 38	0 8 3 E
Norton Fitzwarren	51 1 41	3 8 8 W
Nottingham Steeple	52 57 8	1 8 14 W
Ogmoor Down	51 28 1	3 35 26 W
Old Law, Beacon Staff	55 39 42	1 40 57 W
Orme's Head (Great)	53 20 2	3 50 21 W

Names of Stations and Objects.	Latitude. °	′	″	Longitude from Greenwich. °	′	″	
Ormskirk Spire -	53	34			52	36	
ORPIT HEIGHTS -	53	3			32	22	
ORWELL -	52	9			0	50	
Orwell Pole -	52	5			0	1	
Orwell Steeple -	52	8	20		0	28	W
Ottery St. Mary -	50	45	13		16	8	W
Over Broughton Steeple	52	49			58	55	W
Pains Hill Spire -	51	19			26	28	W
Palk's Tower -	50	39			34	46	W
Pancras Week Steeple	50	49			24	15	W
PARACOMBE -	51	10			50	49	W
Parkham Steeple -	50	58			18	51	W
Paul's St. Steeple -	50	5			31	37	W
Peel Castle		3			9	41	W
Peel Fell -		16			34	48	W
Penboir Steeple		0			21	23	W
Penbree Steeple		41			48	16	W
Penbury Rock		54			13	45	W
Pencarn		0			2	51	W
Pendennick Signal Staff	50	4			41	32	W
PENDLE HILL -	53	52	11	2	17	21	W
PENGARN MOUNTAIN	52	40	42	4	1	1	W
Penmaen Mawr -	53	15	39	3	55	59	W
Pennigant Hill -	54	10	56	2	14	22	W
Pen Selwood Steeple	1	4	55	2	20	26	W
Pen y Voel -	51	54	36	2	56	3	W
Penrith Beacon -	54	40	37	2	43	59	W
Pershore Steeple	52	6	39	2	4	12	W
Peterborough Cathedral	52	35	40	0	14	45	W
Petrock Stowe Steeple		51	49		5	58	W
Petrox, St. Steeple -		38	27		54	54	W
Pewsey Steeple -		20	18	1	45	34	W
Pillar (The) -	54	29	57	3	16	7	W
Pistle Down Telegraph	50	53	58	1	51	44	W
Pittenweem Spire -	56	12	48	2	43	2	W
PLUMSTONE DOWN		52	5	5	1	19	W
Plungar Steeple -		53	57	0	51	11	W
PLYNLIMMON -	52	28	3	3	46	4	W
PONTOP PIKE -	54	52	19	1	45	35	W
Portlemouth -	50	13	58	3	44	32	W
Portsdown Telegraph	50	51	13	1	3	3	W
Portsmouth's, Lord, House -	51	13	50	1	21	50	W
Poulton Steeple -	53	50	54	2	58	51	W
Prandergest Steeple -	51	48	28	4	56	40	W
PRECELLY TOP -	51	56	48	4	45	21	W
Prescot Spire -	53	25	45	2	47	44	W
Prestbury Steeple -	51	54	54		2	14	W
Probus, St. Steeple -	50	17	34	4	56		W
Puddington Steeple -	50	53		3	38	48	W
Queensberry Hill -	55	17		3	34	47	W

Names of Stations and Objects.	Latitude. °	′	″	Longitude from Greenwich °	′	″	
RADNOR FOREST	52	16		3	11	16	W
Ramsey Island, highest point -	51	51	43		19	36	W
Ramsey Steeple -	52	27	57		6	9	W
Redmile Spire -	52	54	44		48	42	W
Red Pike -	54	31	24		16	31	W
Retford (East) Spire -	53	23	58	0	54	3	W
RHIW MOUNTAIN -	52	50	0	4	36	48	W
Rhuddlan Steeple -	53	17	30		27	24	W
Rickmansworth Spire	51	38	12		27	55	W
Ripon Church -	54	8	11		30	47	W
Rivel Mountain -	2	58	33	4	24	9	W
RIVINGTON HILL -	53	37	51	2	30	21	W
Roch Castle -	1	50	59	5	2	32	W
RODNEY'S PILLAR -	52	43	23	3	2	1	W
Romsey Steeple -	0	59	26		29	45	W
Rosilly Barrow -	51	34	35		15	51	W
Rossal Point, Landmark	53	55	18		2	20	W
ROYSTON -	52	2	20		3	7	W
Royston Steeple -	52	2	53		1	9	W
RUFFLAW -	55	13	16		45	13	W
RUMBLES MOOR -	53	54	16		49	9	W
Ruscombe Steeple -	51	28	49		50	48	W
Saddle Back -	54	38	30		2	17	W
Salcombe Chapel -	50	14	22		45	15	W
Salisbury Spire -	51	3	56		47	24	W
Sampford -	50	56	41		14	59	W
Sandon Steeple -	51	59	35		4	26	W
Saterleigh Gazebo -	50	59	15		52	48	W
SAYRS LAW -	55	51	1		39	35	W
SCA FELL (LOWER TOP) -	54	27	2	3	12	45	W
SCILLY BANK -	54	33	43	3	32	54	W
Seaton Delaval Summer House -	55	5	2	1	28	42	W
Seend Steeple -	51	20	50	2	4	28	W
Selby Steeple -	53	47	7	1	3	42	W
Sephton Spire -	53	30	19	2	57	36	W
Shaftsbury, *Trinity Steeple*	51	0	24	2	11	25	W
Sherborne Steeple		56	50	2	30	26	W
Sherf Hill, Beacon Staff	54	52	59	1	34	23	W
Shields, North, Steeple	55	0	48	1	26	27	W
Shiplake Steeple -	51	29	56	0	53	27	W
Shottesbrook Spire -	51	29	13	0	47	6	W
Shrewsbury, *St. Chads Steeple* -		42	28	2	44	53	W
Shuckburgh Steeple -		15	10	1	16	3	W
SHUNNOR FELL -		22	21	2	13	31	W
Sibertoft Steeple -		26	22	0	59	38	W
SIMONSIDE HILL -		17	5	1	57	16	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
SKIDDAW -	54	39	12	3	8	9	W
Small's Lighthouse -	51	43	18	5	58	34	W
SNEA FELL -	54	17	28	4	26	46	W
SNOWDON -	53	4	9	4	3	38	W
Somersham Steeple -	52	23	46	0	0	0	
South Molton Steeple	51	1	8	3	49	17	W
Southerness Point Landmark - - -	54	52	30	3	34	53	W
South Petherton -	50	56	54	2	47	54	W
Soutra Hill Pile -	55	51	1	2	45	6	W
SPAN HEAD -	51	7	1	3	47	55	W
Spreyton Steeple -	50	45	21	3	50	4	W
STAINCROSS HEIGHTS	53	35	32	1	30	14	W
Stalling Down Signal Staff -	51	27	19	3	24	24	W
Standish Spire -	53	35	17	2	39	4	W
Stanmore Station -	51	37	17	0	20	38	W
Stanstead Monument	50	52	47	0	53	36	W
Staple Hill -	50	56	43	3	4	16	W
Staples, West, Lighthouse -	55	37	11	1	38	51	W
Staples, East, Lighthouse -	55	38	9	1	37	5	W
Staples, Building on the	55	37	8	1	38	54	W
STATHERN POINT -	52	52	33	0	49	50	W
Stathern Steeple -	52	52	17	0	50	55	W
Steeple Ashton	51	18	49	2	7	39	W
Steinton Steeple -	51	43	51	4	59	50	W
STOW HILL -	52	21	53	2	59	31	W
Stow, Building on Hill near -	55	34	50	2	53	24	W
Stretham Steeple -	52	21	41	0	13	48	E
Sturminster Steeple -	50	55	31	2	17	39	W
Stutland Signal Staff	50	37	57	1	55	52	W
Sunderland Lighthouse	54	55	12	1	21	16	W
Sunderland Point Windmill -	55	34	45	1	37	56	W
SUTTON ASHFIELD	53	6	52	1	12	58	W
Sutton Spire -	53	7	36	1	42	38	W
Sutton Steeple -	52	24	14	0	8	6	E
Swaffham Spire -	52	15	35	0	18	39	E
Swansea Castle -	51	37	13	3	55	32	W
SYMMOND'S HALL -	51	39	48	2	17	59	W
Taliaris Pigeon House	51	55	54	3	57	26	W
TALBARN -	52	13	8	4	7	8	W
Tamerton North Steeple	50	45	5	4	22	44	W
Tame Steeple -	51	45	3	0	58	38	W
Taunton, *St. Mary's Steeple* -	51	0	59	3	5	22	W
Tenby Spire -	51	40	20	4	40	52	W
Tewkesbury Steeple	51	59	27	2	9	7	W

Names of Stations and Objects.	Latitude.			Longitude from Greenwich.			
	°	′	″	°	′	″	
Thelbridge Steeple -	50	53	47	3	42	44	W
Therfield Steeple -	52	0	57	0	3	20	W
Thorne Falcon Steeple	51	0	38	3	0	43	W
Thorne Steeple -	53	36	45	0	56	8	W
Thorney Abbey -	52	38	39	0	6	29	W
TILTON ON THE HILL	52	38	46	0	51	45	W
Tilton on the Hill Spire	52	38	40	0	53	53	W
Titterdieu Signal Staff	50	3	19	5	33	30	W
Toot Hill Telegraph	50	57	56	1	27	6	W
Totness Steeple -	50	25	57	3	40	29	W
Town Hill Telegraph	50	55	24	1	19	38	W
TRECASTLE BEACON	51	52	58	3	41	35	W
Tre Carn Issa -	51	50	5	3	53	44	W
Treclwig Mountain -	51	53	25	3	52	31	W
TREGARRON DOWN	52	14	3	3	48	53	W
Tregonning Signal Staff	50	6	59	5	20	1	W
TRELLEG BEACON -	51	44	42	2	41	51	W
Trelleg Steeple -	51	44	47	2	42	53	W
Trowbridge Spire -	51	19	8	2	11	57	W
Trumpington Steeple	52	10	45	0	6	58	W
Tuddington Steeple -	51	56	59	0	39	55	W
Twinell's St. Steeple -	51	38	24	4	50	44	W
Twymbarlum Mountain	51	37	41	3	4	55	W
Tynemouth Lighthouse	55	1	21	1	24	31	W
Uffculme Steeple -	50	54	15	3	19	16	W
Ugborough Spire -	50	23	13	3	50	53	W
Wakefield Spire -	53	41	2	1	29	24	W
Wallaton Cross -	50	19	27	3	41	30	W
Waller's Pleasure House	53	49	41	2	22	14	W
Waltham Spire -	52	49	5	0	48	21	W
Warboys Spire -	52	24	58	0	5	11	W
Warbstow -	50	41	17	4	32	5	W
Wardour Castle -	51	2	32	2	5	45	W
Wareham Steeple -	50	41	5	2	5	56	W
Warkleigh Steeple -	50	59	20	3	55	19	W
Warkworth Castle -	55	20	54	1	36	14	W
Warren Bank -	52	5	49	4	36	18	W
Warren Spire -	51	38	20	4	58	13	W
Warren Signal Staff -	50	53	17	2	50	4	W
Warrington Steeple -	53	23	30	2	33	11	W
WATER CRAG -	54	26	19	2	6	8	W
Watford Spire -	51	39	16	0	23	36	W
Wavertree Steeple -	53	23	43	2	54	17	W
WEAVER HILL -	53	0	55	1	51	10	W
Wednesbury Spire -	52	33	23	2	0	44	W
Welford Steeple -	52	25	5	1	3	13	W
Wellingore Steeple -	53	5	53	0	31	52	W
Wellington Steeple -	50	58	54	3	12	49	W
West Allington Steeple	50	16	55	3	46	45	W
West Hatch Steeple -	50	59	5	3	0	30	W
West Knoyle Steeple	51	5	39	2	11	36	W

Names of stations and Objects.	Latitude. °	'	"	Longitude from Greenwich. °	'	"	
West Mouse -	3	25	6	4	32	13	W
West Morchard Steeple	0	51	15	3	43	52	W
Westerton Folly -	4	40	32	1	37	16	W
Whatley Spire -	1	13	39	2	22	23	W
Whatton Spire -	2	57	1	0	53	15	W
WHERNSIDE (Great in Kettlewell Dale) -	4	9	44	1	59	24	W
WHERNSIDE (in Ingleton Fells) -	4	13	45	2	23	35	W
Whin Fell -	5	21	3	3	15	4	W
Whitchurch Steeple -	51	52	5	0	49	49	W
Whitehaven, Windmil near -	54	32	50	3	34	56	W
Whittlesea Spire -	52	34	36	0	7	46	W
Wickham Lodge Telegraph -	50	54	2	1	9	1	W
Widworthy -	50	47		3	6	10	W
Willen Steeple -	52	2	1	0	39	57	W
WILTON BEACON -	53	59	54	0	45	29	W
Wimborne Steeple -	50	47	5	1	58	52	W
Wincanton Steeple -	51	3	2	2	24	16	W
Winchester Cathedral	51	3	4	1	18	26	W
Winckley Steeple -	50	51	2	3	55	48	W
Wing Steeple -	51	53	4	0	43	3	W
Wingrave Steeple -	51	51	4	0	44	8	W
Winslow Steeple -	51	56	34	0	52	40	W
Winwick Spire -	53	25	53		35	16	W
Wisbich Steeple -	52	41	23		10	15	E
WISP HILL -	55	17	13		57	22	W
Witheridge -	50	55	6		41	27	W
WITTLE HILL -	53	40	4		15	26	W
Wiveliscombe Steeple	51	2	30	.3	17	52	W
Woburn Abbey -	51	54	47		35	42	W
Woking Monument	51	18	30		31	55	W
Woodbury Signal Staff	50	37	22		20	17	W
Woolavington Steeple	51	10	16		55	24	W
Woolford Lodge -	50	49	1		12	15	W
Woolverhampton Spire	52	34	54		7	10	W
WORDESLOW HILL -	54	51	3		25	6	W
Workington Chapel -	54	38	34	3	33	30	W
Worm's Head -		33	56		18	56	W
WREKIN (THE) -	52	40	11		31	30	W
Yartcombe -		52	22	3	4	34	W
Yelling Spire -	52	15	16	0	9	19	W
Yeovil Steeple -	50	56	34		37		W
Yetminster Steeple -	50	53	40		34	6	W
YNALIOG MOUNTAIN	52	48	41		43	30	W
Ynys Gadarn -	53	22	9		14	15	W
Ynystraeth Bychan -	53	21	32		12	35	W
York Minster -	53	57	48		4	34	W
York Spire -	53	57	30		4	28	W
Zeal Monachorum -	50	49			48	23	W

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ERRATA.

Page 89, *Triangle* 17, Sides and Angles inverted.
—— 135, *Triangle* 213, *for* 148740, 1 *read* 168740,1.
—— 160, and 161, *for* Puncheston, *read* Castle Baith.
—— 170 *Triangle* 16, *put* 58 3 4 a line lower.
—— 171, *Triangle* 15, *for* 37030, *read* 57030.
—— 174, *Triangle* 14, invert the sides.
—— 175, *Triangle* 12, *for* 44769, *read* 41799.
—— 177, *Triangle* 17, *for* 50136, *read* 50178.
—— 178, *Triangle* 7, *for* 255855 *read* 254680, *and Triangle* 14, *for* 154994, *read* 158603
—— 189, *for* Plate 2, *read* Plates 2 and 3.
—— 283, *Triangle* 7, *for* 46632, *read* 46525.
—— 305, *line* 10, *for* Dundry, *read* Dunkery; also Dundry Beacon, 790.
—— 339, *line* 23, *for* 14129 S, *read* 14129 N.
—— 346, *line* 4, *for* 118350, *read* 11835.
—— 348, *line* 21, *for* 44466 W, *read* 44466 E.
—— 360, *line* 4, *for* 883329, *read* 88329.
In the pagination of Signature T t, *for* 349, &c., *read* 321, &c.